



Daria Mochly-Rosen

George D. Smith Professor of Translational Medicine
Chemical and Systems Biology

 NIH Biosketch available Online

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Professor, Chemical and Systems Biology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, SPARK at Stanford
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Founder and President, SPARK Global, (2015- present)
- Fellow, Stanford University Institute for Chemical Biology, (2013- present)
- Steering Committee Member, Cardiovascular Institute, (2013- present)
- Associate Director, Cardiovascular Institute, (2007-2011)
- SPARK Founder and co-Director, Stanford University, School of Medicine, (2006- present)
- Senior Associate Dean for Research, Stanford University School of Medicine, (2006-2013)
- Member, Cancer Institute at Stanford, (2005- present)
- Professor, by courtesy, Department of Neurosurgery, (2004-2009)
- Chair, Department of Molecular Pharmacology AKA Department of Chemical and Systems Biology, (2002-2006)
- Professor, Department of Chemical and Systems Biology, (2001- present)
- Chief, Division of Chemical Biology, (2001-2002)

HONORS AND AWARDS

- Reed-Hodgson Professor in Human Biology, Stanford University (1996-2001)

- TEDMED Talk in the session "Catalyzing Great Science", TEDMED (2015)
- The George D Smith Professor of Translational Medicine, School of medicine (2005)
- Janice Pfeffer Distinguished Lecture Award, International Society for Heart Research (ISHR) (2012)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Member, VIB Institutional Advisory Board, Belgium (2018 - present)
- Board Member, California Life Sciences Association (CLSA) (2016 - present)

PROFESSIONAL EDUCATION

- Ph.D., Weizmann Institute, Israel , Chemical Immunology (1983)
- B.S., Tel Aviv University, Israel , Life Sciences (1977)

COMMUNITY AND INTERNATIONAL WORK

- SPARK Global

LINKS

- Mochly-Rosen Lab: <https://mochlyrosen.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are a multi-disciplinary research lab that includes chemists, biochemists, biologists and physician scientists. We develop pharmacological agents and apply them to understand molecular and cellular events under basal and disease conditions using *in vitro*, *in culture* and *in vivo* models.

There are several research areas: two use peptide inhibitors and two to small molecules.

1. We study how protein-protein interactions govern cell signaling (Science, 1995). Using rational approaches, we identify short peptide inhibitors of intracellular protein-protein interactions to interfere with signal transduction under basal and pathological conditions (Nature Biotechnology, 2008). This rational approach led to the discovery of the only highly selective protein kinase C (PKC) inhibitors and activators. These peptide regulators of PKC identified the role of this family of enzymes in a number of cellular responses. Importantly, these peptide regulators are useful as therapeutics in a variety of animal models of human diseases, including myocardial infarction and heart failure (Nature Review Drug Discovery, 2013). A phase IIa study in humans demonstrated that one of the peptide inhibitors is efficacious in reducing cardiac damage in myocardial infarction patients. The study was carried out by KAI Pharmaceuticals that was co-founded with Dr. Leon Chen (a graduate student from the lab) in 2002. The company was acquired by Amgen in 2012 and one of KAI's drug was approved in Europe (2016). Current lab efforts focus on rationally generating substrate-specific inhibitors of the multi-substrate kinase, delta PKC (Qvit, J Am Chem Soc 2016; Qvit, Angewante 2016).

2. Recent effort focuses on rational design of inhibitors and activators of large GTPases that regulate mitochondrial dynamics (fusion and fission; Kornfeld, Circ Res 2015). One peptide inhibitor of pathological mitochondrial fission (Qi, JCS 2013; Guo, JCI 2013) is now being developed in Mitoconix (founded in 2016), as a treatment for Huntington's disease and other neurodegenerative diseases (Distanik, J Exp Med, 2016). Another peptide may provide a treatment for Charcot-Marie-Tooth II (Franco, Nature, 2016).

3. We unexpectedly identified aldehyde dehydrogenase 2 (ALDH2), the rate determining enzyme in ethanol metabolism, as a key regulator of cell survival under oxidative stress. We designed a novel assay to screen for activators of ALDH2, called Aldas (for ALDH activators) Science, 2008). Importantly, Aldas correct a structural mutation in ALDH2 found in ~0.5 billion East Asians and therefore represents a new class of drugs that serve as molecular chaperons (Nature Structure and Molecular Biology, 2010). Aldas also prevent nitroglycerin-induced tolerance and improves outcome after myocardial infarction (Science Translational Medicine,

2011). Very few selective activators of enzymes have been described. This research led to founding ALDEA Pharma with Dr. Che-Hong Chen, a senior scientist in the lab (2011); licensed to Foresee (2016). We also founded STAR, an international research organization for ALDH2 enzymopathy (Gross, *Ann Rev Tox*, 2015). Because defense from oxidative stress is determining cell survival, we examines the benefit of activating different ALDHs in a variety of diseases, including in Fanconi Anemia and radiation disease. Using a small molecule, we also 'hijacked' ALDH3A1 to metabolize the substrate of the mutated ALDH2 (Chen, *PNAS*, 2016).

4. Current efforts focus also on identifying small molecules that correct genetic defects in another critical enzyme for cell protection, glucose-6-phosphate dehydrogenase (G6PD). Mutations in G6PD lead to the second most common enzymopathy (~350 million people). Using high-throughput screening, in silico design and synthetic organic chemistry and X-ray crystallography, small molecule activators that increase the catalytic activity of the most common G6PD mutations are under development.

Teaching

COURSES

2023-24

- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2022-23

- A Practical Approach to Drug Discover and Development: CSB 240B (Spr)
- A Practical Approach to Drug Discovery and Development: CSB 240A (Win)
- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2021-22

- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win)
- Economics of Biotechnology: CSB 245 (Spr)
- Research Seminar: CSB 270 (Aut, Win)

2020-21

- A Practical Approach to Drug Discover and Development: CSB 240B (Spr)
- A Practical Approach to Drug Discovery and Development: CSB 240A (Win)
- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win)
- Research Seminar: CSB 270 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Rebecca Chan, Andres Iglesias-Thome, Paras Minhas, Michael Swift, Alex Van Elgort

Postdoctoral Faculty Sponsor

Jessy Etienne, Gwangbeom Heo, Takuya Seike

Doctoral Dissertation Advisor (AC)

Ben Kraemer, Isabel Larus, SUMAN POKHREL

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

- Cardiovascular Medicine (Fellowship Program)
- Chemical and Systems Biology (Phd Program)
- Neurosciences (Phd Program)
- Pediatric Nephrology (Fellowship Program)

Publications

PUBLICATIONS

- **Implication of the cooking oil-peroxidation product "hydroxynonenal" for Alzheimer's disease.** *Frontiers in aging neuroscience*
Yamashima, T., Seike, T., Mochly-Rosen, D., Chen, C. H., Kikuchi, M., Mizukoshi, E.
2023; 15: 1211141
- **Impact of common ALDH2 inactivating mutation and alcohol consumption on Alzheimer's disease.** *Frontiers in aging neuroscience*
Seike, T., Chen, C. H., Mochly-Rosen, D.
2023; 15: 1223977
- **Targeting an allosteric site in dynamin-related protein 1 to inhibit Fis1-mediated mitochondrial dysfunction.** *Nature communications*
Rios, L., Pokhrel, S., Li, S. J., Heo, G., Haileselassie, B., Mochly-Rosen, D.
2023; 14 (1): 4356
- **Changes of neurofilament light chain in patients with alcohol dependence following withdrawal and the genetic effect from ALDH2 Polymorphism.** *European archives of psychiatry and clinical neuroscience*
Huang, M. C., Tu, H. Y., Chung, R. H., Kuo, H. W., Liu, T. H., Chen, C. H., Mochly-Rosen, D., Liu, Y. L.
2023
- **A Common East Asian aldehyde dehydrogenase 2*2 variant promotes ventricular arrhythmia with chronic light-to-moderate alcohol use in mice.** *Communications biology*
Lee, A., Sung, Y., Pan, S., Sung, K., Su, C., Ding, S., Lu, Y., Hsieh, C., Chen, Y., Liu, C., Chen, W., Chen, X., Chung, et al
2023; 6 (1): 610
- **Analysis of well-annotated next-generation sequencing data reveals increasing cases of SARS-CoV-2 reinfection with Omicron.** *Communications biology*
Burkholz, S., Rubsam, M., Blankenberg, L., Carback, R. T., Mochly-Rosen, D., Harris, P. E.
2023; 6 (1): 288
- **Drp1/p53 interaction mediates p53 mitochondrial localization and dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
Mukherjee, R., Tetri, L. H., Li, S. J., Fajardo, G., Ostberg, N. P., Tsegay, K. B., Gera, K., Cornell, T. T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
2023; 177: 28-37
- **SGLT2 inhibitor ameliorates endothelial dysfunction associated with the common ALDH2 alcohol flushing variant.** *Science translational medicine*
Guo, H., Yu, X., Liu, Y., Paik, D. T., Justesen, J. M., Chandy, M., Jahng, J. W., Zhang, T., Wu, W., Rwere, F., Zhao, S. R., Pokhrel, S., Shivnaraine, et al
2023; 15 (680): eabp9952
- **EXTRACELLULAR MITOCHONDRIA EXACERBATE GRAFT-VERSUS-HOST DISEASE MORTALITY IN A MOUSE MODEL**
Vijayan, V., Yan, H., Lohmeyer, J., Peterson, K., Harden, J., Patil, R., Barbarito, G., Bertaina, A., Negrin, R., Mochly-Rosen, D., Weinberg, K., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2023: 640
- **MITOCHONDRIAL FISSION & CELL-FREE MITOCHONDRIA MEDIATE CARDIAC DYSFUNCTION IN OBESITY CARDIOMYOPATHY**
Li, S., Chen, C., Ostberg, N., Tetri, L., Cornell, T., Mochly-Rosen, D., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2023: 50
- **DRP1/P53 INTERACTION PLAYS A KEY ROLE IN MITOCHONDRIAL DYSFUNCTION OF SEPTIC CARDIOMYOPATHY**
Tetri, L., Mukherjee, R., Li, S., Fajardo, G., Ostberg, N., Tsegay, K., Gera, K., Cornell, T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2023: 617
- **COVID-19 prophylaxis with immunoglobulin Y (IgY) for the world population: The critical role that governments and non-governmental organizations can play.** *Journal of global health*
Frumkin, L. R., Lucas, M., Wallach, M., Scribner, C. L., St John, T., Mochly-Rosen, D.

2022; 12: 03080

- **ALDH7A1 rs12514417 polymorphism may increase ischemic stroke risk in alcohol-exposed individuals.** *Nutrition & metabolism*
Lin, C. H., Nfor, O. N., Ho, C. C., Hsu, S. Y., Tantoh, D. M., Liaw, Y. C., Mochly-Rosen, D., Chen, C. H., Liaw, Y. P.
2022; 19 (1): 70
- **ALDH2 variance in disease and populations.** *Disease models & mechanisms*
Chen, C., Kraemer, B. R., Mochly-Rosen, D.
2022; 15 (6)
- **ALDH2 Expression, Alcohol Intake, and Semen Parameters Among East Asian Men.** *The Journal of urology*
Greenberg, D. R., Bhambvani, H. P., Basran, S. S., Salazar, B. P., Rios, L. C., Li, S. J., Chen, C. H., Mochly-Rosen, D., Eisenberg, M. L.
2022: 101097JU0000000000002682
- **Boosting the Discovery of Small Molecule Inhibitors of Glucose-6-Phosphate Dehydrogenase for the Treatment of Cancer, Infectious Diseases, and Inflammation.** *Journal of medicinal chemistry*
Koperniku, A., Garcia, A. A., Mochly-Rosen, D.
2022
- **Alcohol Consumption, ALDH2 Polymorphism as Risk Factors for Upper Aerodigestive Tract Cancer Progression and Prognosis.** *Life (Basel, Switzerland)*
Chen, C., Wang, W., Hsu, M., Mochly-Rosen, D.
2022; 12 (3)
- **A Selective Inhibitor of Cardiac Troponin I Phosphorylation by Delta Protein Kinase C (deltaPKC) as a Treatment for Ischemia-Reperfusion Injury.** *Pharmaceuticals (Basel, Switzerland)*
Qvit, N., Lin, A. J., Elezaby, A., Ostberg, N. P., Campos, J. C., Ferreira, J. C., Mochly-Rosen, D.
2022; 15 (3)
- **Drp1/Fis1-Dependent Pathologic Fission and Associated Damaged Extracellular Mitochondria Contribute to Macrophage Dysfunction in Endotoxin Tolerance.** *Critical care medicine*
Mukherjee, R., Tompkins, C. A., Ostberg, N. P., Joshi, A. U., Massis, L. M., Vijayan, V., Gera, K., Monack, D., Cornell, T. T., Hall, M. W., Mochly-Rosen, D., Haileselassie, B.
1800
- **Mitochondrial fusion, fission and mitophagy in cardiac diseases: challenges and therapeutic opportunities.** *Antioxidants & redox signaling*
Scheffer, D. d., Garcia, A. A., Lee, L., Mochly-Rosen, D., Ferreira, J. C.
1800
- **Stabilization of glucose-6-phosphate dehydrogenase oligomers enhances catalytic activity and stability of clinical variants.** *The Journal of biological chemistry*
Garcia, A. A., Mathews, I. I., Horikoshi, N., Matsui, T., Kaur, M., Wakatsuki, S., Mochly-Rosen, D.
2022: 101610
- **Affordable IgY-based antiviral prophylaxis for resource-limited settings to address epidemic and pandemic risks.** *Journal of global health*
Chen, C. J., Hudson, A. F., Jia, A. S., Kunchur, C. R., Song, A. J., Tran, E., Fisher, C. J., Zanchi, D., Lee, L., Kargotich, S., Romeo, M., Koperniku, A., Pamnani, et al
2022; 12: 05009
- **Egg-Derived Anti-SARS-CoV-2 Immunoglobulin Y (IgY) With Broad Variant Activity as Intranasal Prophylaxis Against COVID-19.** *Frontiers in immunology*
Frumkin, L. R., Lucas, M., Scribner, C. L., Ortega-Heinly, N., Rogers, J., Yin, G., Hallam, T. J., Yam, A., Bedard, K., Begley, R., Cohen, C. A., Badger, C. V., Abbasi, et al
2022; 13: 899617
- **Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1** *Nature Chemical Biology*
Feng, Z., Hom, M. E., Bearrood, T. E., Rosenthal, Z. C., Fernández, D., Ondrus, A. E., Gu, Y., McCormick, A. K., Tomaske, M. G., Marshall, C. R., Chen, C., Mochly-Rosen, D., Kuo, et al
2022
- **Activation of PKCepsilon-ALDH2 Axis Prevents 4-HNE-Induced Pain in Mice.** *Biomolecules*
Martins, B. B., Hosch, N. G., Alcantara, Q. A., Budas, G. R., Chen, C., Mochly-Rosen, D., Ferreira, J. C., Zambelli, V. O.

1800; 11 (12)

- **deltaPKC-Mediated Drp1 Phosphorylation Impacts Macrophage Mitochondrial Function and Inflammatory Response to Endotoxin.** *Shock (Augusta, Ga.)*
Lin, A. J., Joshi, A. U., Mukherjee, R., Tompkins, C. A., Vijayan, V., Mochly-Rosen, D., Haileselassie, B.
2021
- **Activation of Aldehyde Dehydrogenase 2 Ameliorates Glucolipotoxicity of Pancreatic Beta Cells.** *Biomolecules*
Chen, S., Hee, S., Chou, S., Liu, M., Chen, C., Mochly-Rosen, D., Chang, T., Chuang, L.
2021; 11 (10)
- **Annotation of 1350 Common Genetic Variants of the 19 ALDH Multigene Family from Global Human Genome Aggregation Database (gnomAD).** *Biomolecules*
Chen, C., Kraemer, B. R., Lee, L., Mochly-Rosen, D.
2021; 11 (10)
- **Treatment strategies for glucose-6-phosphate dehydrogenase deficiency: past and future perspectives.** *Trends in pharmacological sciences*
Garcia, A. A., Koperniku, A., Ferreira, J. C., Mochly-Rosen, D.
2021
- **Natural variants in SARS-CoV-2 Spike protein pinpoint structural and functional hotspots with implications for prophylaxis and therapeutic strategies.** *Scientific reports*
Pokhrel, S., Kraemer, B. R., Burkholz, S., Mochly-Rosen, D.
2021; 11 (1): 13120
- **Paired SARS-CoV-2 spike protein mutations observed during ongoing SARS-CoV-2 viral transfer from humans to minks and Back to humans.** *Infection, genetics and evolution : journal of molecular epidemiology and evolutionary genetics in infectious diseases*
Burkholz, S., Pokhrel, S., Kraemer, B. R., Mochly-Rosen, D., Carback, R. T., Hodge, T., Harris, P., Ciotlos, S., Wang, L., Herst, C. V., Rubsamen, R.
2021: 104897
- **The Role of Alcohol, LPS Toxicity, and ALDH2 in Dental Bony Defects.** *Biomolecules*
Tsai, H., Chen, C., Mochly-Rosen, D., Li, Y. E., Chen, M.
2021; 11 (5)
- **A Novel ALDH2 Activator AD-9308 Improves Diastolic and Systolic Myocardial Functions in Streptozotocin-Induced Diabetic Mice.** *Antioxidants (Basel, Switzerland)*
Lee, H., Hee, S., Hsuan, C., Yang, W., Huang, J., Lin, Y., Hsu, C., Hwang, J., Chen, S., Ding, Z., Lee, T., Lin, Y., Tsai, et al
2021; 10 (3)
- **ALDH2 deficiency induces atrial fibrillation through dysregulated cardiac sodium channel and mitochondrial bioenergetics: a multi-omics analysis.** *Biochimica et biophysica acta. Molecular basis of disease*
Hu, Y., Wu, C., Lai, T., Chang, Y., Hwang, M., Chang, T., Weng, C., Chang, P. M., Chen, C., Mochly-Rosen, D., Huang, C. F., Chen, S.
2021: 166088
- **Restoring metabolism of myeloid cells reverses cognitive decline in ageing.** *Nature*
Minhas, P. S., Latif-Hernandez, A., McReynolds, M. R., Durairaj, A. S., Wang, Q., Rubin, A., Joshi, A. U., He, J. Q., Gauba, E., Liu, L., Wang, C., Linde, M., Sugiura, et al
2021
- **Long-range structural defects by pathogenic mutations in most severe glucose-6-phosphate dehydrogenase deficiency.** *Proceedings of the National Academy of Sciences of the United States of America*
Horikoshi, N. n., Hwang, S. n., Gati, C. n., Matsui, T. n., Castillo-Orellana, C. n., Raub, A. G., Garcia, A. A., Jabbarpour, F. n., Batyuk, A. n., Broweleit, J. n., Xiang, X. n., Chiang, A. n., Broweleit, et al
2021; 118 (4)
- **Immunoglobulin Y for Potential Diagnostic and Therapeutic Applications in Infectious Diseases.** *Frontiers in immunology*
Lee, L., Samardzic, K., Wallach, M., Frumkin, L. R., Mochly-Rosen, D.
2021; 12: 696003
- **Increased elastase sensitivity and decreased intramolecular interactions in the more transmissible 501Y.V1 and 501Y.V2 SARS-CoV-2 variants' spike protein-an in silico analysis.** *PloS one*
Pokhrel, S., Kraemer, B. R., Lee, L., Samardzic, K., Mochly-Rosen, D.

2021; 16 (5): e0251426

- **The Effect of Ethanol Consumption on Composition and Morphology of Femur Cortical Bone in Wild-Type and ALDH2*2-Homozygous Mice.** *Calcified tissue international*
Malkovskiy, A. V., Van Wassenhove, L. D., Goltsev, Y., Osei-Sarfo, K., Chen, C., Efron, B., Gudas, L. J., Mochly-Rosen, D., Rajadas, J.
2020
- **Novel and prevalent non-East Asian ALDH2 variants; Implications for global susceptibility to aldehydes' toxicity.** *EBioMedicine*
Chen, C., Ferreira, J. C., Joshi, A. U., Stevens, M. C., Li, S., Hsu, J. H., Maclean, R., Ferreira, N. D., Cervantes, P. R., Martinez, D. D., Barrientos, F. L., Quintanares, G. H., Mochly-Rosen, et al
2020; 55: 102753
- **Characterization of a Human ALDH2 Mutant that Causes Alcohol Flushing in Non-east Asians**
Rwera, F., White, J., Chen, C., Mochly-Rosen, D., Gross, E.
WILEY.2020
- **Structural defect leads to human severe (Class I) loss of function in glucose-6-phosphate dehydrogenase**
Horikoshi, N., Hwang, S., Gati, C., Matsui, T., Castillo-Orellana, C., Garcia, A., Raub, A., Jabbarpour, F., Mochly-Rosen, D., Wakatsuki, S., Vohringer-Martinez, E.
WILEY.2020
- **Mitochondrial dysfunction mediated through dynamin-related protein 1 (Drp1) propagates impairment in blood brain barrier in septic encephalopathy.** *Journal of neuroinflammation*
Haileselassie, B. n., Joshi, A. U., Minhas, P. S., Mukherjee, R. n., Andreasson, K. I., Mochly-Rosen, D. n.
2020; 17 (1): 36
- **Author Correction: Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration.** *Nature neuroscience*
Joshi, A. U., Minhas, P. S., Liddelow, S. A., Haileselassie, B. n., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D. n.
2020
- **Pharmacologic Activation of Aldehyde Metabolism to Protect Hematopoietic Stem Cells (HSC) in Murine Models of Fanconi Anemia (FA)**
Tsai, J., Logas, K. R., Van Wassenhove, L. D., Dejene, B., Chen, C., Mochly-Rosen, D., Weinberg, K. I.
AMER SOC HEMATOLOGY.2019
- **Unlocking the Secrets of Mitochondria in the Cardiovascular System: Path to a Cure in Heart Failure—A Report from the 2018 National Heart, Lung, and Blood Institute Workshop** *Circulation*
Tian, R., Colucci, W. S., Arany, Z., Bachschmid, M. M., Ballinger, S. W., Boudina, S., Bruce, J. E., Busija, D. W., Dikalov, S., Dorn, G. W., Galis, Z. S., Gottlieb, R. A., Kelly, et al
2019; 140 (14): 1205-1216
- **Unlocking the Secrets of Mitochondria in the Cardiovascular System Path to a Cure in Heart Failure-A Report from the 2018 National Heart, Lung, and Blood Institute Workshop** *CIRCULATION*
Tian, R., Colucci, W. S., Arany, Z., Bachschmid, M. M., Ballinger, S. W., Boudina, S., Bruce, J. E., Busija, D. W., Dikalov, S., Dorn, G. W., Galis, Z. S., Gottlieb, R. A., Kelly, et al
2019; 140 (14): 1205–16
- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Haileselassie, B., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
2019; 130: 160–69
- **A Noncanonical Role of Delta Protein Kinase C (delta PKC) Phosphorylation of Troponin I in Cardiac Reperfusion Injury**
Lin, A. J., Ostberg, N. P., Kornfeld, O., Qvit, N., Mochly-Rosen, D.
WILEY.2019
- **A selective inhibitor of mitofusin 1-betaIIIPKC association improves heart failure outcome in rats.** *Nature communications*
Ferreira, J. C., Campos, J. C., Qvit, N., Qi, X., Bozi, L. H., Bechara, L. R., Lima, V. M., Queliconi, B. B., Disatnik, M., Dourado, P. M., Kowaltowski, A. J., Mochly-Rosen, D.
2019; 10 (1): 329
- **ALDH2 and Cardiovascular Disease.** *Advances in experimental medicine and biology*
Chen, C., Ferreira, J. C., Mochly-Rosen, D.

2019; 1193: 53–67

- **Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration.** *Nature neuroscience*
Joshi, A. U., Minhas, P. S., Liddelow, S. A., Haileselassie, B. n., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D. n.
2019; 22 (10): 1635–48
- **Aldehyde dehydrogenase 2 activity and aldehydic load contribute to neuroinflammation and Alzheimer's disease related pathology.** *Acta neuropathologica communications*
Joshi, A. U., Van Wassenhove, L. D., Logas, K. R., Minhas, P. S., Andreasson, K. I., Weinberg, K. I., Chen, C. H., Mochly-Rosen, D. n.
2019; 7 (1): 190
- **ROLE OF DRP1/FIS1-MEDIATED MITOCHONDRIAL FRAGMENTATION IN SEPSIS-INDUCED MYOCARDIAL DYSFUNCTION**
Haileselassie, B., Joshi, A., Mukherjee, R., Napier, B., Massis, L., Ostberg, N., Monack, D., Bernstein, D., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Alcohol consumption and vascular disease: other points to consider.** *Lancet (London, England)*
Chen, C. H., Ferreira, J. C., Mochly-Rosen, D. n., Gross, E. R.
2019; 394 (10209): 1617–18
- **Macrophage de novo NAD(+) synthesis specifies immune function in aging and inflammation** *NATURE IMMUNOLOGY*
Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
2019; 20 (1): 50–+
- **Proteasome-Dependent Regulation of Distinct Metabolic States During Long-Term Culture of Human iPSC-Derived Cardiomyocytes.** *Circulation research*
Ebert, A. n., Joshi, A. U., Andorf, S. n., Dai, Y. n., Sampathkumar, S. n., Chen, H. n., Li, Y. n., Garg, P. n., Toischer, K. n., Hasenfu#, G. n., Mochly Rosen, D. n., Wu, J. C.
2019
- **Surviving in the Valley of Death: Opportunities and Challenges in Translating Academic Drug Discoveries** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 59*
Parrish, M. C., Tan, Y., Grimes, K. V., Mochly-Rosen, D., Insel, P. A.
2019; 59: 405–21
- **Small-Molecule Activators of Glucose-6-phosphate Dehydrogenase (G6PD) Bridging the Dimer Interface.** *ChemMedChem*
Raub, A. n., Hwang, S. n., Horikoshi, N. n., Cunningham, A. n., Rahighi, S. n., Wakatsuki, S. n., Mochly-Rosen, D. n.
2019
- **Targeting mitochondrial dysfunction and oxidative stress in heart failure: Challenges and opportunities** *FREE RADICAL BIOLOGY AND MEDICINE*
Kiyuna, L., Prestes e Albuquerque, R., Chen, C., Mochly-Rosen, D., Batista Ferreira, J.
2018; 129: 155–68
- **Mortal engines: Mitochondrial bioenergetics and dysfunction in neurodegenerative diseases**
Joshi, A. U., Mochly-Rosen, D.
ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD.2018: 2–15
- **ALDH1 Bio-activates Nifuroxazide to Eradicate ALDH(High) Melanoma-Initiating Cells** *CELL CHEMICAL BIOLOGY*
Sarvi, S., Crispin, R., Lu, Y., Zeng, L., Hurley, T. D., Houston, D. R., von Kriegsheim, A., Chen, C., Mochly-Rosen, D., Ranzani, M., Mathers, M. E., Xu, X., Xu, et al
2018; 25 (12): 1456–+
- **Macrophage de novo NAD+ synthesis specifies immune function in aging and inflammation.** *Nature immunology*
Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
2018
- **4-HNE-mediated post-translational modulation of DICER in heart failure**
Kiyuna, L., MacRae, I. J., Chen, C., Mochly-Rosen, D., Ferreira, J.
ELSEVIER SCIENCE INC.2018: S29
- **Correcting glucose-6-phosphate dehydrogenase deficiency with a small-molecule activator.** *Nature communications*

- Hwang, S., Mruk, K., Rahighi, S., Raub, A. G., Chen, C., Dorn, L. E., Horikoshi, N., Wakatsuki, S., Chen, J. K., Mochly-Rosen, D.
2018; 9 (1): 4045
- **ALDH1 Bio-activates Nifuroxazide to Eradicate ALDH-High Melanoma-Initiating Cells.** *Cell chemical biology*
Sarvi, S., Crispin, R., Lu, Y., Zeng, L., Hurley, T. D., Houston, D. R., von Kriegsheim, A., Chen, C., Mochly-Rosen, D., Ranzani, M., Mathers, M. E., Xu, X., Xu, et al
2018
 - **Interaction of mitochondrial fission factor with dynamin related protein 1 governs physiological mitochondrial function in vivo.** *Scientific reports*
Kornfeld, O. S., Qvit, N., Haileselassie, B., Shamloo, M., Bernardi, P., Mochly-Rosen, D.
2018; 8 (1): 14034
 - **Surviving in the Valley of Death: Opportunities and Challenges in Translating Academic Drug Discoveries.** *Annual review of pharmacology and toxicology*
Parrish, M. C., Tan, Y. J., Grimes, K. V., Mochly-Rosen, D.
2018
 - **Monoamine oxidase-dependent endoplasmic reticulum-mitochondria dysfunction and mast cell degranulation lead to adverse cardiac remodeling in diabetes** *CELL DEATH AND DIFFERENTIATION*
Deshwal, S., Forkink, M., Hu, C., Buonincontri, G., Antonucci, S., Di Sante, M., Murphy, M. P., Paolocci, N., Mochly-Rosen, D., Krieg, T., Di Lisa, F., Kaludercic, N.
2018; 25 (9): 1518–32
 - **Mortal engines: Mitochondrial bioenergetics and dysfunction in neurodegenerative diseases.** *Pharmacological research*
Joshi, A. U., Mochly-Rosen, D.
2018
 - **Aldehyde dehydrogenase 3A1 activation prevents radiation-induced xerostomia by protecting salivary stem cells from toxic aldehydes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Saiki, J. P., Cao, H., Van Wassenhove, L. D., Viswanathan, V., Bloomstein, J., Nambiar, D. K., Mattingly, A. J., Jiang, D., Chen, C., Stevens, M. C., Simmons, A. L., Park, H., von Eyben, et al
2018; 115 (24): 6279–84
 - **Cardioprotection induced by a brief exposure to acetaldehyde: role of aldehyde dehydrogenase 2** *CARDIOVASCULAR RESEARCH*
Ueta, C., Campos, J., Prestes e Albuquerque, R., Lima, V., Disatnik, M., Sanchez, A., Chen, C., Gennari de Medeiros, M., Yang, W., Mochly-Rosen, D., Batista Ferreira, J.
2018; 114 (7): 1006–15
 - **MFN2 agonists reverse mitochondrial defects in preclinical models of Charcot-Marie-Tooth disease type 2A** *SCIENCE*
Rocha, A. G., Franco, A., Krezel, A. M., Rumsey, J. M., Alberti, J. M., Knight, W. C., Biris, N., Zacharioudakis, E., Janetka, J. W., Baloh, R. H., Kitsis, R. N., Mochly-Rosen, D., Townsend, et al
2018; 360 (6386): 336–41
 - **Transcriptome analysis and prognosis of ALDH isoforms in human cancer** *SCIENTIFIC REPORTS*
Chang, P., Chen, C., Yeh, C., Lu, H., Liu, T., Chen, M., Liu, C., Wu, A. H., Yang, M., Tai, S., Mochly-Rosen, D., Huang, C. F.
2018; 8: 2713
 - **Drp1/Fis1 interaction mediates mitochondrial dysfunction, bioenergetic failure and cognitive decline in Alzheimer's disease.** *Oncotarget*
Joshi, A. U., Saw, N. L., Shamloo, M. n., Mochly-Rosen, D. n.
2018; 9 (5): 6128–43
 - **EVALUATION OF THE TEMPORAL CHANGES IN CARDIAC BIOENERGETICS IN THE SETTING OF SEPSIS**
Haileselassie, B., Joshi, A., Bernstein, D., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2018: 742
 - **Inhibition of Drp1/Fis1 interaction slows progression of amyotrophic lateral sclerosis.** *EMBO molecular medicine*
Joshi, A. U., Saw, N. L., Vogel, H. n., Cunningham, A. D., Shamloo, M. n., Mochly-Rosen, D. n.
2018
 - **Genetic Polymorphisms of Alcohol Metabolizing Enzymes and Alcohol Consumption are Associated With Asymptomatic Cardiac Remodeling and Subclinical Systolic Dysfunction in Large Community-Dwelling Asians** *ALCOHOL AND ALCOHOLISM*
Hung, C., Chang, S., Chang, S., Chi, P., Lai, Y., Wang, S., Wu, Y., Yeh, H., Lin, S., Chen, C., Mochly-Rosen, D., Wang, L., MAGNET Study Investigator

2017; 52 (6): 638–46

- **Thiophene bridged aldehydes (TBAs) image ALDH activity in cells via modulation of intramolecular charge transfer** *CHEMICAL SCIENCE*
Maity, S., Sadlowski, C. M., Lin, J., Chen, C., Peng, L., Lee, E., Vegesna, G. K., Lee, C., Kim, S., Mochly-Rosen, D., Kumar, S., Murthy, N.
2017; 8 (10): 7143–51
- **Structural analysis of clinically relevant pathogenic G6PD variants reveals the importance of tetramerization for G6PD activity.** *Matters*
Cunningham, A. D., Mochly-Rosen, D.
2017; 2017
- **Targeting aldehyde dehydrogenase activity in head and neck squamous cell carcinoma with a novel small molecule inhibitor.** *Oncotarget*
Kim, J., Shin, J. H., Chen, C. H., Cruz, L., Farnebo, L., Yang, J., Borges, P., Kang, G., Mochly-Rosen, D., Sunwoo, J. B.
2017; 8 (32): 52345-52356
- **Abstract 145: Rational Design of a Novel Peptide That Selectively Inhibits [delta]Pkc-mediated Pyruvate Dehydrogenase Kinase Phosphorylation Induce Protection From Ischemia and Reperfusion Injury**
Qvit, N., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2017
- **Aldehyde dehydrogenase 2*2 knock-in mice show increased reactive oxygen species production in response to cisplatin treatment.** *Journal of biomedical science*
Kim, J., Chen, C., Yang, J., Mochly-Rosen, D.
2017; 24 (1): 33-?
- **Targeting aldehyde dehydrogenase activity in head and neck squamous cell carcinoma with a novel small molecule inhibitor.** *Oncotarget*
Kim, J., Ho Shin, J., Chen, C., Cruz, L., Farnebo, L., Yang, J., Borges, P., Kang, G., Mochly-Rosen, D., Sunwoo, J. B.
2017
- **Coupling between Protein Stability and Catalytic Activity Determines Pathogenicity of G6PD Variants** *CELL REPORTS*
Cunningham, A. D., Colavin, A., Huang, K. C., Mochly-Rosen, D.
2017; 18 (11): 2592-2599
- **Peptidomimetic therapeutics: scientific approaches and opportunities.** *Drug discovery today*
Qvit, N., Rubin, S. J., Urban, T. J., Mochly-Rosen, D., Gross, E. R.
2017; 22 (2): 454-462
- **Aldehyde dehydrogenase 2 activation and coevolution of its epsilon PKC-mediated phosphorylation sites** *JOURNAL OF BIOMEDICAL SCIENCE*
Nene, A., Chen, C., Disatnik, M., Cruz, L., Mochly-Rosen, D.
2017; 24
- **Peptides and peptidomimetics as regulators of protein-protein interactions.** *Current opinion in structural biology*
Cunningham, A. D., Qvit, N., Mochly-Rosen, D.
2017; 44: 59-66
- **Disruption of mitochondrial quality control in peripheral artery disease: New therapeutic opportunities** *PHARMACOLOGICAL RESEARCH*
Ueta, C. B., Gomes, K. S., Ribeiro, M. A., Mochly-Rosen, D., Ferreira, J. C.
2017; 115: 96-106
- **Exercise reestablishes autophagic flux and mitochondrial quality control in heart failure** *AUTOPHAGY*
Campos, J. C., Queliconi, B. B., Bozi, L. M., Bechara, L. G., Dourado, P. M., Andres, A. M., Jannig, P. R., Gomes, K. S., Zambelli, V. O., Rocha-Resende, C., Guatimosim, S., Brum, P. C., Mochly-Rosen, et al
2017; 13 (8): 1304–17
- **Human Chitotriosidase Does Not Catabolize Hyaluronan.** *International journal of biological macromolecules*
Danielson, B. n., Chen, C. H., Kaber, G. n., Mochly-Rosen, D. n., Grimes, K. n., Stern, R. n., Bollyky, P. L.
2017
- **The Role of Mitochondrial Aldehyde Dehydrogenase 2 (ALDH2) in Neuropathology and Neurodegeneration.** *Acta neurologica Taiwanica*
Chen, C., Joshi, A. U., Mochly-Rosen, D.
2016; 25(4): 111-123

- **Genetic variations of aldehyde dehydrogenase 2 and alcohol dehydrogenase 1B are associated with the etiology of atrial fibrillation in Japanese** *JOURNAL OF BIOMEDICAL SCIENCE*
Nakano, Y., Ochi, H., Onohara, Y., Sairaku, A., Tokuyama, T., Matsumura, H., Tomomori, S., Amioka, M., Hironomobe, N., Motoda, C., Oda, N., Chayama, K., Chen, et al
2016; 23
- **Engineered Substrate-Specific Delta PKC Antagonists to Enhance Cardiac Therapeutics** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Qvit, N., Kornfeld, O. S., Mochly-Rosen, D.
2016; 55 (50): 15672-15679
- **Potential biomarkers to follow the progression and treatment response of Huntington's disease.** *journal of experimental medicine*
Disatnik, M., Joshi, A. U., Saw, N. L., Shamloo, M., Leavitt, B. R., Qi, X., Mochly-Rosen, D.
2016
- **Correcting mitochondrial fusion by manipulating mitofusin conformations.** *Nature*
Franco, A., Kitsis, R. N., Fleischer, J. A., Gavathiotis, E., Kornfeld, O. S., Gong, G., Biris, N., Benz, A., Qvit, N., Donnelly, S. K., Chen, Y., Mennerick, S., Hodgson, et al
2016
- **In Vivo Post-Cardiac Arrest Myocardial Dysfunction Is Supported by Ca²⁺/Calmodulin-Dependent Protein Kinase II-Mediated Calcium Long-Term Potentiation and Mitigated by Alda-1, an Agonist of Aldehyde Dehydrogenase Type 2.** *Circulation*
Woods, C. E., Shang, C., Taghavi, F., Downey, P., Zaleski, A., Rubio, G. R., Liu, J., Homburger, J. R., Grunwald, Z., Qi, W., Bollensdorff, C., Thanaporn, P., Ali, et al
2016; 134 (13): 961-977
- **Transient Receptor Potential Vanilloid 1 Regulates Mitochondrial Membrane Potential and Myocardial Reperfusion Injury.** *Journal of the American Heart Association*
Hurt, C. M., Lu, Y., M Stary, C., Piplani, H., Small, B. A., Urban, T. J., Qvit, N., Gross, G. J., Mochly-Rosen, D., Gross, E. R.
2016; 5 (9)
- **The entangled ER-mitochondrial axis as a potential therapeutic strategy in neurodegeneration: A tangled duo unchained.** *Cell calcium*
Joshi, A. U., Kornfeld, O. S., Mochly-Rosen, D.
2016; 60 (3): 218-234
- **Transient Receptor Potential Vanilloid 1 Regulates Mitochondrial Membrane Potential and Myocardial Reperfusion Injury** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*
Hurt, C. M., Lu, Y., Stary, C. M., Piplani, H., Small, B. A., Urban, T. J., Qvit, N., Gross, G. J., Mochly-Rosen, D., Gross, E. R.
2016; 5 (9)
- **Aldehyde dehydrogenase 2 in aplastic anemia, Fanconi anemia and hematopoietic stem cells** *MOLECULAR GENETICS AND METABOLISM*
Van Wassenhove, L. D., Mochly-Rosen, D., Weinberg, K. I.
2016; 119 (1-2): 28-36
- **PKC-ALDH2 Pathway Plays a Novel Role in Adipocyte Differentiation** *PLOS ONE*
Yu, Y., Liao, P., Guo, C., Chen, C., Mochly-Rosen, D., Chuang, L.
2016; 11 (8)
- **Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) Protein-Protein Interaction Inhibitor Reveals a Non-catalytic Role for GAPDH Oligomerization in Cell Death** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Qvit, N., Joshi, A. U., Cunningham, A. D., Ferreira, J. C., Mochly-Rosen, D.
2016; 291 (26): 13608-13621
- **Selective Phosphorylation Inhibitor of Delta Protein Kinase C-Pyruvate Dehydrogenase Kinase Protein-Protein Interactions: Application for Myocardial Injury in Vivo** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Qvit, N., Disatnik, M., Sho, E., Mochly-Rosen, D.
2016; 138 (24): 7626-7635
- **Glucose-6-Phosphate Dehydrogenase Deficiency and the Need for a Novel Treatment to Prevent Kernicterus** *CLINICS IN PERINATOLOGY*
Cunningham, A. D., Hwang, S., Mochly-Rosen, D.
2016; 43 (2): 341-?

- **Scaffold proteins LACK and TRACK as potential drug targets in kinetoplastid parasites: Development of inhibitors** *INTERNATIONAL JOURNAL FOR PARASITOLOGY-DRUGS AND DRUG RESISTANCE*
Qvit, N., Schechtman, D., Pena, D. A., Berti, D. A., Soares, C. O., Miao, Q., Liang, L. (., Baron, L. A., Teh-Poot, C., Martinez-Vega, P., Ramirez-Sierra, M. J., Churchill, E., Cunningham, et al
2016; 6 (1): 74-84
- **Coevolution and Disease-Causing Mutations in Glucose-6-Phosphate Dehydrogenase (G6PD)**
Cunningham, A., Colavin, A., Huang, K. C., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2016
- **Coevolution and Disease-Causing Mutations in Glucose-6-Phosphate Dehydrogenase (G6PD)**
Cunningham, A., Colavin, A., Huang, K. C., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2016
- **Scaffold proteins LACK and TRACK as potential drug targets in kinetoplastid parasites: Development of inhibitors.** *International journal for parasitology. Drugs and drug resistance*
Qvit, N., Schechtman, D., Pena, D. A., Berti, D. A., Soares, C. O., Miao, Q., Liang, L. A., Baron, L. A., Teh-Poot, C., Martínez-Vega, P., Ramirez-Sierra, M. J., Churchill, E., Cunningham, et al
2016; 6 (1): 74-84
- **VCP recruitment to mitochondria causes mitophagy impairment and neurodegeneration in models of Huntington's disease.** *Nature communications*
Guo, X., Sun, X., Hu, D., Wang, Y., Fujioka, H., Vyas, R., Chakrapani, S., Joshi, A. U., Luo, Y., Mochly-Rosen, D., Qi, X.
2016; 7: 12646-?
- **Impaired GAPDH-induced mitophagy contributes to the pathology of Huntington's disease** *EMBO MOLECULAR MEDICINE*
Hwang, S., Disatnik, M., Mochly-Rosen, D.
2015; 7 (10): 1307-1326
- **Diabetes-induced Mitochondrial Dna Damage and Cardiac Dysfunction are Aggravated Due to Low Aldehyde Dehydrogenase 2 (aldh2) Activity in Aldh2*2 (e487k) Knock-in Mutant Mice**
Palaniyandi, S. S., Pan, G., Deshpande, M., Mali, V. R., Xu, J., Yang, X., Giri, S., Chen, C., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2015
- **High-throughput Single Cell Tracking of Mitochondrial Function in Cardiomyocytes**
Fajardo, G., Bezold, K., Meyer, T., Mochly-Rosen, D., Bernstein, D.
LIPPINCOTT WILLIAMS & WILKINS.2015
- **Mitochondrial reactive oxygen species at the heart of the matter: new therapeutic approaches for cardiovascular diseases.** *Circulation research*
Kornfeld, O. S., Hwang, S., Disatnik, M., Chen, C., Qvit, N., Mochly-Rosen, D.
2015; 116 (11): 1783-1799
- **Elucidation of the role of glyceraldehyde-3-phosphate dehydrogenase (GAPDH) interaction with mutant huntingtin (mtHtt) for mitochondrial elimination in Huntington's disease**
Hwang, S., Disatnik, M., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2015
- **Pharmacological recruitment of aldehyde dehydrogenase 3A1 (ALDH3A1) to assist ALDH2 in acetaldehyde and ethanol metabolism in vivo** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chen, C., Cruz, L. A., Mochly-Rosen, D.
2015; 112 (10): 3074-3079
- **New therapeutics to modulate mitochondrial dynamics and mitophagy in cardiac diseases.** *Journal of molecular medicine (Berlin, Germany)*
Disatnik, M., Hwang, S., Ferreira, J. C., Mochly-Rosen, D.
2015; 93 (3): 279-287
- **Aldehydic load and aldehyde dehydrogenase 2 profile during the progression of post-myocardial infarction cardiomyopathy: Benefits of Alda-1** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Gomes, K. M., Bechara, L. R., Lima, V. M., Ribeiro, M. A., Campos, J. C., Dourado, P. M., Kowaltowski, A. J., Mochly-Rosen, D., Ferreira, J. C.
2015; 179: 129-138
- **A personalized medicine approach for asian americans with the aldehyde dehydrogenase 2*2 variant.** *Annual review of pharmacology and toxicology*

- Gross, E. R., Zambelli, V. O., Small, B. A., Ferreira, J. C., Chen, C., Mochly-Rosen, D.
2015; 55: 107-127
- **Neuroprotective effects of aldehyde dehydrogenase 2 activation in rotenone-induced cellular and animal models of parkinsonism** *EXPERIMENTAL NEUROLOGY*
Chiu, C., Yeh, T., Lai, S., Wu-Chou, Y., Chen, C., Mochly-Rosen, D., Huang, Y., Chen, Y., Chen, C., Chang, Y., Wang, H., Lu, C.
2015; 263: 244-253
 - **The many hats of protein kinase C delta: one enzyme with many functions** *BIOCHEMICAL SOCIETY TRANSACTIONS*
Qvit, N., Mochly-Rosen, D.
2014; 42: 1529-1533
 - **The many hats of protein kinase Cd: one enzyme with many functions.** *Biochemical Society transactions*
Qvit, N., Mochly-Rosen, D.
2014; 42 (6): 1529-1533
 - **Novel aldehyde dehydrogenase inhibitors as potential anti-chemoresistance drugs for head and neck cancers**
Kim, J., Shin, J., Chen, C., Cruz, L., Farnebo, L., Yang, J., Sunwoo, J. B., Mochly-Rosen, D.
AMER ASSOC CANCER RESEARCH.2014
 - **Characterization of the molecular mechanisms underlying increased ischemic damage in the aldehyde dehydrogenase 2 genetic polymorphism using a human induced pluripotent stem cell model system** *SCIENCE TRANSLATIONAL MEDICINE*
Ebert, A. D., Kodo, K., Liang, P., Wu, H., Huber, B. C., Riegler, J., Churko, J., Lee, J., de Almeida, P., Lan, F., Diecke, S., Burrridge, P. W., Gold, et al
2014; 6 (255)
 - **Characterization of the molecular mechanisms underlying increased ischemic damage in the aldehyde dehydrogenase 2 genetic polymorphism using a human induced pluripotent stem cell model system.** *Science translational medicine*
Ebert, A. D., Kodo, K., Liang, P., Wu, H., Huber, B. C., Riegler, J., Churko, J., Lee, J., de Almeida, P., Lan, F., Diecke, S., Burrridge, P. W., Gold, et al
2014; 6 (255): 255ra130-?
 - **Aldehyde dehydrogenase 2 activation in heart failure restores mitochondrial function and improves ventricular function and remodelling** *CARDIOVASCULAR RESEARCH*
Gomes, K. M., Campos, J. C., Bechara, L. R., Queliconi, B., Lima, V. M., Disatnik, M., Magno, P., Chen, C., Brum, P. C., Kowaltowski, A. J., Mochly-Rosen, D., Ferreira, J. C.
2014; 103 (4): 498-508
 - **Aldehyde dehydrogenase-2 regulates nociception in rodent models of acute inflammatory pain.** *Science translational medicine*
Zambelli, V. O., Gross, E. R., Chen, C., Gutierrez, V. P., Cury, Y., Mochly-Rosen, D.
2014; 6 (251): 251ra118-?
 - **Aldehyde dehydrogenase-2 regulates nociception in rodent models of acute inflammatory pain.** *Science translational medicine*
Zambelli, V. O., Gross, E. R., Chen, C., Gutierrez, V. P., Cury, Y., Mochly-Rosen, D.
2014; 6 (251): 251ra118-?
 - **Inhibiting one substrate at a time: Bio-engineering of delta protein kinase C to modulate specific interactions and phosphorylations**
Qvit, N., Disatnik, M., Mochly-Rosen, D.
AMER CHEMICAL SOC.2014
 - **Engineering a delta protein kinase C inhibitor that selectively inhibits interaction and phosphorylation of one substrate of the multi-substrate kinase**
Qvit, N., Disatnik, M., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2014
 - **Altering substrate specificity of aldehyde dehydrogenase 3A1 to enhance acetaldehyde metabolism, in vivo**
Chen, C., Cruz, L., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2014
 - **Peripheral Sensitization Increases Opioid Receptor Expression and Activation by Crotalphone in Rats** *PLOS ONE*
Zambelli, V. O., de Oliveira Fernandes, A. C., Gutierrez, V. P., Batista Ferreira, J. C., Parada, C. A., Mochly-Rosen, D., Cury, Y.
2014; 9 (3)
 - **Development of Selective Inhibitors for Aldehyde Dehydrogenases Based on Substituted Indole-2,3-diones** *JOURNAL OF MEDICINAL CHEMISTRY*

- Kimble-Hill, A. C., Parajuli, B., Chen, C., Mochly-Rosen, D., Hurley, T. D.
2014; 57 (3): 714-722
- **The challenge in translating basic research discoveries to treatment of Huntington disease.** *Rare diseases (Austin, Tex.)*
Mochly-Rosen, D., Disatnik, M., Qi, X.
2014; 2
 - **Commercialization and Entrepreneurship** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 127–62
 - **Discovery and Preclinical Work** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 31–77
 - **A Practical Guide to Drug Development in Academia The SPARK Approach Preface** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: VII-VIII
 - **Getting Started** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 1–29
 - **Preparing for the Clinic** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 79–108
 - **Transferring Technology** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 109–25
 - **Concluding Thoughts** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
Mochly-Rosen, D., MochlyRosen, D., Grimes, K.
2014: 163–70
 - **TARGETING ALDEHYDE DEHYDROGENASE 2: NEW THERAPEUTIC OPPORTUNITIES** *PHYSIOLOGICAL REVIEWS*
Chen, C., Batista Ferreira, J. C., Gross, E. R., Mochly-Rosen, D.
2014; 94 (1): 1-34
 - **Inhibition of mitochondrial fragmentation diminishes Huntington's disease-associated neurodegeneration** *JOURNAL OF CLINICAL INVESTIGATION*
Guo, X., Disatnik, M., Monbureau, M., Shamloo, M., Mochly-Rosen, D., Qi, X.
2013; 123 (12): 5371-5388
 - **Protein-Protein Inhibitor Peptide of Drp1/Fis1 Interaction Protects the Heart Against Ischemia/Reperfusion Injury**
Disatnik, M., Ferreira, J. C., Campos, J., Gomes, K., Dourado, P. M., Qi, X., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2013
 - **Acute Inhibition of Excessive Mitochondrial Fission After Myocardial Infarction Prevents Long-term Cardiac Dysfunction** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*
Disatnik, M., Ferreira, J. C., Campos, J. C., Gomes, K. S., Dourado, P. M., Qi, X., Mochly-Rosen, D.
2013; 2 (5)
 - **PKC epsilon activation promotes FGF-2 exocytosis and induces endothelial cell proliferation and sprouting** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Monti, M., Donnini, S., Morbidelli, L., Giachetti, A., Mochly-Rosen, D., Mignatti, P., Ziche, M.
2013; 63: 107-117
 - **Nociceptive-induced myocardial remote conditioning is mediated by neuronal gamma protein kinase C.** *Basic research in cardiology*
Gross, E. R., Hsu, A. K., Urban, T. J., Mochly-Rosen, D., Gross, G. J.
2013; 108 (5): 381-?

- **A Novel Aldehyde Dehydrogenase-3 Activator (Alda-89) Protects Submandibular Gland Function from Irradiation without Accelerating Tumor Growth.** *Clinical cancer research*
Xiao, N., Cao, H., Chen, C., Kong, C. S., Ali, R., Chan, C., Sirjani, D., Graves, E., Koong, A., Giaccia, A., Mochly-Rosen, D., Le, Q.
2013; 19 (16): 4455-4464
- **A Novel Aldehyde Dehydrogenase-3 Activator (Alda-89) Protects Submandibular Gland Function from Irradiation without Accelerating Tumor Growth** *CLINICAL CANCER RESEARCH*
Xiao, N., Cao, H., Chen, C., Kong, C. S., Ali, R., Chan, C., Sirjani, D., Graves, E., Koong, A., Giaccia, A., Mochly-Rosen, D., Quynh-Thu Le, Q. T.
2013; 19 (16): 4455-4464
- **Glyceraldehyde-3-phosphate Dehydrogenase (GAPDH) Phosphorylation by Protein Kinase C delta (PKC delta) Inhibits Mitochondria Elimination by Lysosomal-like Structures following Ischemia and Reoxygenation-induced Injury** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Yogalingam, G., Hwang, S., Ferreira, J. C., Mochly-Rosen, D.
2013; 288 (26): 18947-18960
- **Selective activation of protein kinase C? in mitochondria is neuroprotective in vitro and reduces focal ischemic brain injury in mice.** *Journal of neuroscience research*
Sun, X., Budas, G. R., Xu, L., Barreto, G. E., Mochly-Rosen, D., Giffard, R. G.
2013; 91 (6): 799-807
- **In vivo measurement of aldehyde dehydrogenase-2 activity in rat liver ethanol model using dynamic MRSI of hyperpolarized [1-(13) C]pyruvate.** *NMR in biomedicine*
Josan, S., Xu, T., Yen, Y., Hurd, R., Ferreira, J., Chen, C., Mochly-Rosen, D., Pfefferbaum, A., Mayer, D., Spielman, D.
2013; 26 (6): 607-612
- **Mitochondrial aldehyde dehydrogenase-2 activation prevents beta-amyloid-induced endothelial cell dysfunction and restores angiogenesis** *JOURNAL OF CELL SCIENCE*
Solito, R., Corti, F., Chen, C., Mochly-Rosen, D., Giachetti, A., Ziche, M., Donnini, S.
2013; 126 (9): 1952-1961
- **Translational medicine: mitigating risks for investigators** *NATURE REVIEWS DRUG DISCOVERY*
Mann, D. L., Mochly-Rosen, D.
2013; 12 (5): 327-28
- **Selectively inhibiting the active site cysteine of aldehyde dehydrogenases**
Kimble-Hill, A. C., Parajuli, B., Chen, C., Mochly-Rosen, D., Hurley, T. D.
AMER CHEMICAL SOC.2013
- **A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity** *JOURNAL OF CELL SCIENCE*
Qi, X., Qvit, N., Su, Y., Mochly-Rosen, D.
2013; 126 (3): 789-802
- **Exercise Training Restores Cardiac Protein Quality Control in Heart Failure** *PLOS ONE*
Campos, J. C., Queliconi, B. B., Dourado, P. M., Cunha, T. F., Zambelli, V. O., Bechara, L. R., Kowaltowski, A. J., Brum, P. C., Mochly-Rosen, D., Ferreira, J. C.
2012; 7 (12)
- **Protein kinase C, an elusive therapeutic target?** *NATURE REVIEWS DRUG DISCOVERY*
Mochly-Rosen, D., Das, K., Grimes, K. V.
2012; 11 (12): 937-957
- **Gamma Protein Kinase C Mediates Remote Incision-induced Cardioprotection**
Gross, E. R., Hsu, A. K., Urban, T. J., Mochly-Rosen, D., Gross, G. J.
LIPPINCOTT WILLIAMS & WILKINS.2012
- **Selective Inhibition of delta Pkc-mediated Pyruvate Dehydrogenase Kinase Phosphorylation Alone is Sufficient to Induce Protection From Ischemia and Reperfusion Injury**
Qvit, N., Disatnik, M., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2012
- **Activation of epsilon PKC reduces reperfusion arrhythmias and improves recovery from ischemia: Optical mapping of activation patterns in the isolated guinea-pig heart** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*

- Restivo, M., Kozhevnikov, D. O., Qu, Y. S., Yue, Y., Rosen, D., El-Sherif, N., Boutjdir, M.
2012; 426 (2): 237-241
- **Common ALDH2 genetic variants predict development of hypertension in the SAPHIRE prospective cohort: Gene-environmental interaction with alcohol consumption** *BMC CARDIOVASCULAR DISORDERS*
Chang, Y., Chiu, Y., Lee, I., Ho, L., Hung, Y., Hsiung, C. A., Quertermous, T., Donlon, T., Lee, W., Lee, P., Chen, C., Mochly-Rosen, D., Chuang, et al
2012; 12
 - **Mitigation of Radiation-Induced Dermatitis by Activation of Aldehyde Dehydrogenase 2 Using Topical Alda-1 in Mice** *RADIATION RESEARCH*
Ning, S., Budas, G. R., Churchill, E. N., Chen, C., Knox, S. J., Mochly-Rosen, D.
2012; 178 (1): 69-74
 - **Identification of epsilon PKC Targets During Cardiac Ischemic Injury** *CIRCULATION JOURNAL*
Budas, G., Costa, H. M., Batista Ferreira, J. C., da Silva Ferreira, A. T., Perales, J., Krieger, J. E., Mochly-Rosen, D., Schechtman, D.
2012; 76 (6): 1476-1485
 - **Proteins kinase C epsilon is required for non-small cell lung carcinoma growth and regulates the expression of apoptotic genes** *ONCOGENE*
Caino, M. C., Lopez-Haber, C., Kim, J., Mochly-Rosen, D., Kazanietz, M. G.
2012; 31 (20): 2593-2600
 - **Protein quality control disruption by PKCbetaII in heart failure** *Experimental Biology Meeting 2012*
Ferreira, J. C., Mochly-Rosen, D., Brum, P. C.
FEDERATION AMER SOC EXP BIOL.2012
 - **Protein Quality Control Disruption by PKC beta II in Heart Failure; Rescue by the Selective PKC beta II Inhibitor, beta IIIV5-3** *PLOS ONE*
Ferreira, J. C., Boer, B. N., Grinberg, M., Brum, P. C., Mochly-Rosen, D.
2012; 7 (3)
 - **Identification of ePKC targets during cardiac ischemic injury.** *Circulation journal*
Budas, G., Costa, H. M., Ferreira, J. C., Teixeira da Silva Ferreira, A., Perales, J., Krieger, J. E., Mochly-Rosen, D., Schechtman, D.
2012; 76 (6): 1476-1485
 - **Role of Protein Kinase C in Mitochondrial Functions in Cardiac Ischemia-Reperfusion Injury** *MITOCHONDRIAL SIGNALING IN HEALTH AND DISEASE*
Batista Ferreira, J., Mochly-Rosen, D., Orrenius, S., Packer, L., Cadenas, E.
2012: 35-54
 - **Nitroglycerin Use in Myocardial Infarction Patients - Risks and Benefits** *CIRCULATION JOURNAL*
Ferreira, J. C., Mochly-Rosen, D.
2012; 76 (1): 15-21
 - **Protein quality control disruption by PKCBII in heart failure; rescue by the selective PKCBII inhibitor, BIIIV5-3.** *PloS one*
Ferreira, J. C., Boer, B. N., Grinberg, M., Brum, P. C., Mochly-Rosen, D.
2012; 7 (3)
 - **Nitroglycerin use in myocardial infarction patients.** *Circulation journal*
Ferreira, J. C., Mochly-Rosen, D.
2012; 76 (1): 15-21
 - **Regulation of cardiac excitability by protein kinase C isozymes.** *Frontiers in bioscience (Scholar edition)*
Ferreira, J. C., Mochly-Rosen, D., Boutjdir, M.
2012; 4: 532-546
 - **Discovery of a Novel Class of Covalent Inhibitor for Aldehyde Dehydrogenases** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Khanna, M., Chen, C., Kimble-Hill, A., Parajuli, B., Perez-Miller, S., Baskaran, S., Kim, J., Dria, K., Vasiliou, V., Mochly-Rosen, D., Hurley, T. D.
2011; 286 (50): 43486-43494
 - **A Novel Aldehyde Dehydrogenase-3 Activator Leads to Adult Salivary Stem Cell Enrichment In Vivo** *CLINICAL CANCER RESEARCH*
Banh, A., Xiao, N., Cao, H., Chen, C., Kuo, P., Krakow, T., Bavan, B., Khong, B., Yao, M., Ha, C., Kaplan, M. J., Sirjani, D., Jensen, et al
2011; 17 (23): 7265-7272

- **Pharmacological inhibition of beta IIPKC is cardioprotective in late-stage hypertrophy** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Ferreira, J. C., Koyanagi, T., Palaniyandi, S. s., Fajardo, G., Churchill, E. N., Budas, G., Disatnik, M., Bernstein, D., Brum, P. C., Mochly-Rosen, D.
2011; 51 (6): 980-987
- **ALDH2 activator inhibits increased myocardial infarction injury by nitroglycerin tolerance.** *Science translational medicine*
Sun, L., Ferreira, J. C., Mochly-Rosen, D.
2011; 3 (107): 107ra111-?
- **ALDH2 Activator Inhibits Increased Myocardial Infarction Injury by Nitroglycerin Tolerance** *SCIENCE TRANSLATIONAL MEDICINE*
Sun, L., Cesar, J., Ferreira, B., Mochly-Rosen, D.
2011; 3 (107)
- **beta 2-adrenergic receptors mediate cardioprotection through crosstalk with mitochondrial cell death pathways** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Fajardo, G., Zhao, M., Berry, G., Wong, L., Mochly-Rosen, D., Bernstein, D.
2011; 51 (5): 781-789
- **Myocardial salvage in acute myocardial infarction - Challenges in clinical translation** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Mochly-Rosen, D., Grimes, K. V.
2011; 51 (4): 451-453
- **beta IIPKC and epsilon PKC isozymes as potential pharmacological targets in cardiac hypertrophy and heart failure** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Batista Ferreira, J. C., Brum, P. C., Mochly-Rosen, D.
2011; 51 (4): 479-484
- **βIIPKC and εPKC isozymes as potential pharmacological targets in cardiac hypertrophy and heart failure.** *Journal of molecular and cellular cardiology*
Ferreira, J. C., Brum, P. C., Mochly-Rosen, D.
2011; 51 (4): 479-484
- **PKCβII inhibition attenuates myocardial infarction induced heart failure and is associated with a reduction of fibrosis and pro-inflammatory responses.** *Journal of cellular and molecular medicine*
Palaniyandi, S. S., Ferreira, J. C., Brum, P. C., Mochly-Rosen, D.
2011; 15 (8): 1769-1777
- **PKC beta II inhibition attenuates myocardial infarction induced heart failure and is associated with a reduction of fibrosis and pro-inflammatory responses** *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE*
Palaniyandi, S. S., Batista Ferreira, J. C., Brum, P. C., Mochly-Rosen, D.
2011; 15 (8): 1769-1777
- **PKC delta Activation Mediates Angiogenesis via NADPH Oxidase Activity in PC-3 Prostate Cancer Cells** *PROSTATE*
Kim, J., Koyanagi, T., Mochly-Rosen, D.
2011; 71 (9): 946-954
- **Therapeutic Potential for Protein Kinase C Inhibitor in Vascular Restenosis** *JOURNAL OF CARDIOVASCULAR PHARMACOLOGY AND THERAPEUTICS*
Ding, R. Q., Tsao, J., Chai, H., Mochly-Rosen, D., Zhou, W.
2011; 16 (2): 160-167
- **Activation of aldehyde dehydrogenase type 2 (ALDH2) by Alda-1 increases maximum running distance in a hindlimb ischemia model of peripheral arterial disease**
Thanaporn, P., Ferreira, J. C., Lee, J. C., Okagbaa, J., Mochly-Rosen, D., Cooke, J. P.
SAGE PUBLICATIONS LTD.2011: 219-19
- **Matrix metalloproteinases modulated by protein kinase C epsilon mediate resistin-induced migration of human coronary artery smooth muscle cells** *JOURNAL OF VASCULAR SURGERY*
Ding, Q., Chai, H., Mahmood, N., Tsao, J., Mochly-Rosen, D., Zhou, W.
2011; 53 (4): 1044-1051
- **Aberrant mitochondrial fission in neurons induced by protein kinase C delta under oxidative stress conditions in vivo** *MOLECULAR BIOLOGY OF THE CELL*
Qi, X., Disatnik, M., Shen, N., Sobel, R. A., Mochly-Rosen, D.

2011; 22 (2): 256-265

- **Sustained inhibition of PKC alpha reduces intravasation and lung seeding during mammary tumor metastasis in an in vivo mouse model** *ONCOGENE*
Kim, J., Thorne, S. H., Sun, L., Huang, B., Mochly-Rosen, D.
2011; 30 (3): 323-333
- **Rational Design of A Novel Peptide that Selectively Inhibits One delta PKC Function**
Qvit, N., Disatnik, M., Mochly-Rosen, D.
WILEY-BLACKWELL.2011: 487
- **Sustained Inhibition of Epsilon Protein Kinase C Inhibits Vascular Restenosis After Balloon Injury and Stenting**
Deuse, T., Koyanagi, T., Erben, R., Hua, X., Velden, J., Ikeno, F., Reichensperner, H., Robbins, R. C., Mochly-Rosen, D., Schrepfer, S.
LIPPINCOTT WILLIAMS & WILKINS.2010
- **Protein Kinase C-epsilon Mediates Resistin-Induced Human Coronary Artery Smooth Muscle Cell Proliferation** *Scientific Sessions on Arteriosclerosis, Thrombosis and Vascular Biology*
Ding, R. Q., Chai, H., Mochly-Rosen, D., Zhou, W.
LIPPINCOTT WILLIAMS & WILKINS.2010: E265–E265
- **Mitochondrial aldehyde dehydrogenase and cardiac diseases** *CARDIOVASCULAR RESEARCH*
Chen, C., Sun, L., Mochly-Rosen, D.
2010; 88 (1): 51-57
- **Mitochondrial import of PKC epsilon is mediated by HSP90: a role in cardioprotection from ischaemia and reperfusion injury** *CARDIOVASCULAR RESEARCH*
Budas, G. R., Churchill, E. N., Disatnik, M., Sun, L., Mochly-Rosen, D.
2010; 88 (1): 83-92
- **Sustained Inhibition of epsilon Protein Kinase C Inhibits Vascular Restenosis After Balloon Injury and Stenting** *82nd National Conference and Exhibitions and Scientific Sessions of the American-Heart-Association*
Deuse, T., Koyanagi, T., Erben, R. G., Hua, X., Velden, J., Ikeno, F., Reichensperner, H., Robbins, R. C., Mochly-Rosen, D., Schrepfer, S.
LIPPINCOTT WILLIAMS & WILKINS.2010: S170–S178
- **Aldehyde Dehydrogenase Activation Prevents Reperfusion Arrhythmias by Inhibiting Local Renin Release From Cardiac Mast Cells** *CIRCULATION*
Koda, K., Salazar-Rodriguez, M., Corti, F., Chan, N. Y., Estephan, R., Silver, R. B., Mochly-Rosen, D., Levi, R.
2010; 122 (8): 771-U51
- **Regulation of mitochondrial processes: a target for heart failure.** *Drug discovery today. Disease mechanisms*
Palaniyandi, S. S., Qi, X., Yogalingam, G., Ferreira, J. C., Mochly-Rosen, D.
2010; 7 (2): e95-e102
- **Highly Specific Modulators of Protein Kinase C Localization: Applications to Heart Failure.** *Drug discovery today. Disease mechanisms*
Qvit, N., Mochly-Rosen, D.
2010; 7 (2): e87-e93
- **MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 2, A NATURAL SHIELD FROM OXIDATIVE STRESS AND A MEDIATOR OF ETHANOL-INDUCED CARDIAC PROTECTION FROM ISCHEMIA** *33rd Annual Meeting of the Research-Society-on-Alcoholism*
Budas, G. R., Disatnik, M., Qi, X., Chen, C., Mochly-Rosen, D.
WILEY-BLACKWELL.2010: 266A–266A
- **Non-volume-loaded heart provides a more relevant heterotopic transplantation model** *TRANSPLANT IMMUNOLOGY*
Tang-Quan, K. R., Bartos, J., Deuse, T., Churchill, E., Schaefer, H., Reichensperner, H., Mochly-Rosen, D., Robbins, R. C., Schrepfer, S.
2010; 23 (1-2): 65-70
- **delta PKC inhibition or epsilon PKC activation repairs endothelial vascular dysfunction by regulating eNOS post-translational modification** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Monti, M., Donnini, S., Giachetti, A., Mochly-Rosen, D., Ziche, M.
2010; 48 (4): 746-756
- **Aldehyde dehydrogenase activator attenuates diabetic cardiomyopathy; a role in improving the quality of resident cardiac stem cells?**
Palaniyandi, S., Disatnik, M., Sun, L., Vishnumangalam, J., Xia, X., Pavlovic, A., Bhalla, V., Ashley, E., Mochly-Rosen, D.

FEDERATION AMER SOC EXP BIOL.2010

- **Activation of Aldehyde Dehydrogenase 2 Reduces Nitroglycerin-Induced Cardiac Damage**
Sun, L., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2010
- **Activation of aldehyde dehydrogenase 2 (ALDH2) confers cardioprotection in protein kinase C epsilon (PKC epsilon) knockout mice** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Budas, G. R., Disatnik, M., Chen, C., Mochly-Rosen, D.
2010; 48 (4): 757-764
- **Alda-1 is an agonist and chemical chaperone for the common human aldehyde dehydrogenase 2 variant** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*
Perez-Miller, S., Younus, H., Vanam, R., Chen, C., Mochly-Rosen, D., Hurley, T. D.
2010; 17 (2): 159-U4
- **Ischaemic preconditioning improves proteasomal activity and increases the degradation of delta PKC during reperfusion** *CARDIOVASCULAR RESEARCH*
Churchill, E. N., Ferreira, J. C., Brum, P. C., Szweda, L. I., Mochly-Rosen, D.
2010; 85 (2): 385-394
- **Focus on: the cardiovascular system: what did we learn from the French (paradox)?** *Alcohol research & health*
Mochly-Rosen, D., Zakhari, S.
2010; 33 (1): 76-86
- **Identifying PKC Epsilon as a Target Molecule to Control Intimal Hyperplasia**
Schrepfer, S., Deuse, T., Koyanagi, T., Reichenspurner, H., Robbins, R. C., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2009: S998
- **Sustained PKCbetaII inhibition restores both proteasome activity and protein quality control in two different heart failure models**
Ferreira, J. C., Brum, P. C., Mochly-Rosen, D.
OXFORD UNIV PRESS.2009: 574-575
- **Aldehyde Dehydrogenase 2 in Cardiac Protection: A New Therapeutic Target?** *TRENDS IN CARDIOVASCULAR MEDICINE*
Budas, G. R., Disatnik, M., Mochly-Rosen, D.
2009; 19 (5): 158-164
- **Protein kinase C in heart failure: a therapeutic target?** *CARDIOVASCULAR RESEARCH*
Palaniyandi, S. S., Sun, L., Batista Ferreira, J. C., Mochly-Rosen, D.
2009; 82 (2): 229-239
- **Preserved coronary endothelial function by inhibition of delta protein kinase C in a porcine acute myocardial infarction model** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Kaneda, H., Ikeno, F., Inagaki, K., Mochly-Rosen, D.
2009; 133 (2): 256-259
- **Time-dependent and ethanol-induced cardiac protection from ischemia mediated by mitochondrial translocation of epsilon PKC and activation of aldehyde dehydrogenase 2** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Churchill, E. N., Disatnik, M., Mochly-Rosen, D.
2009; 46 (2): 278-284
- **Activating delta PKC antagonizes the protective effect of ERK1/2 inhibition against stroke in rats** *BRAIN RESEARCH*
Castaneda, D., Zhao, H., Mochly-Rosen, D., Steinberg, G. K.
2009; 1251: 256-261
- **Rationally designed peptide regulators of protein kinase C** *TRENDS IN ENDOCRINOLOGY AND METABOLISM*
Churchill, E. N., Qvit, N., Mochly-Rosen, D.
2009; 20 (1): 25-33
- **Ethanol for cardiac ischemia: the role of protein kinase c.** *Therapeutic advances in cardiovascular disease*
Churchill, E. N., Disatnik, M., Budas, G. R., Mochly-Rosen, D.
2008; 2 (6): 469-483

- **Mast cells and epsilon PKC: A role in cardiac remodeling in hypertension-induced heart failure** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Palaniyandi, S. S., Inagaki, K., Mochly-Rosen, D.
2008; 45 (6): 779-786
- **Sustained Pharmacological beta IIPKC Inhibition Is Cardioprotective In Late-stage Hypertrophy And End-stage Heart Failure In Two Rat Models** *81st Annual Scientific Session of the American-Heart-Association*
Ferreira, J. C., Koyanagi, T., Inagaki, K., Fajardo, G., Churchill, E. N., Budas, G., Disatnik, M., Tsutsui, J. M., Kihara, Y., Bernstein, D., Brum, P. C., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2008: S535-S535
- **Ischemic Preconditioning Regulates Myocardial Viability Through The Proteasomal Regulation Of Two Opposing PKC Isozymes** *81st Annual Scientific Session of the American-Heart-Association*
Churchill, E., Ferreira, J., Brum, P., Szveda, L., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2008: S294-S294
- **beta 2-Adrenergic Receptor Signaling Positively Modulates Pro-Survival Kinases and Ameliorates Mitochondrial Dysfunction during Doxorubicin Cardiotoxicity** *81st Annual Scientific Session of the American-Heart-Association*
Fajardo, G., Zhao, M., Barry, G., Mochly-Rosen, D., Bernstein, D.
LIPPINCOTT WILLIAMS & WILKINS.2008: S485-S486
- **Activation of aldehyde dehydrogenase-2 reduces ischemic damage to the heart** *SCIENCE*
Chen, C., Budas, G. R., Churchill, E. N., Disatnik, M., Hurley, T. D., Mochly-Rosen, D.
2008; 321 (5895): 1493-1495
- **Centrosomal PKC beta II and pericentrin are critical for human prostate cancer growth and angiogenesis** *CANCER RESEARCH*
Kim, J., Choi, Y., Vallentin, A., Hunrichs, B. S., Hellerstein, M. K., Peehl, D. M., Mochly-Rosen, D.
2008; 68 (16): 6831-6839
- **epsilon PKC confers acute tolerance to cerebral ischemic reperfusion injury** *NEUROSCIENCE LETTERS*
Bright, R., Sun, G., Yenari, M. A., Steinberg, G. K., Mochly-Rosen, D.
2008; 441 (1): 120-124
- **Inhibition of epsilon protein kinase c attenuates cardiac mast cell degranulation and remodeling in hypertension induced heart failure**
Palaniyandi, S. S., Inagaki, K., Mochly-Rosen, D.
CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2008: S78
- **Protein kinase C epsilon regulates histone deacetylase 6 in cardiac fibrosis**
Sun, L., Mochly-Rosen, D.
CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2008: S78
- **Alteration of gene expression during progression of hypertension-induced cardiac dysfunction in rats** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Koyanagi, T., Wong, L. Y., Inagaki, K., Petrauskene, O. V., Mochly-Rosen, D.
2008; 295 (1): H220-H226
- **Pharmacological inhibition of epsilon-protein kinase C attenuates cardiac fibrosis and dysfunction in hypertension-induced heart failure** *HYPERTENSION*
Inagaki, K., Koyanagi, T., Berry, N. C., Sun, L., Mochly-Rosen, D.
2008; 51 (6): 1565-1569
- **Dopamine and ethanol cause translocation of epsilon PKC associated with epsilon RACK: Cross-talk between cAMP-dependent protein kinase A and protein kinase C signaling pathways** *MOLECULAR PHARMACOLOGY*
Yao, L., Fan, P., Jiang, Z., Gordon, A., Mochly-Rosen, D., Diamond, I.
2008; 73 (4): 1105-1112
- **cPKC isozyme specific substrates in murine embryonic stem cells**
Costa Junior, H. M., Andrade, A., Labate, C., Krieger, J. E., Mochly-Rosen, D., Schechtman, D.
FEDERATION AMER SOC EXP BIOL.2008
- **The PKC delta-Ab1 complex communicates ER stress to the mitochondria - an essential step in subsequent apoptosis** *JOURNAL OF CELL SCIENCE*
Qi, X., Mochly-Rosen, D.

2008; 121 (6): 804-813

- **Islet cell survival during isolation improved through protein kinase C epsilon activation** *Joint Meeting of the International-Xenotransplantation-Association/ International-Pancreas-and-Islet-Transplant-Association/Cell-Transplant-Society*
Kvezereli, M., Vallentin, A., Mochly-Rosen, D., Busque, S., Fontaine, M. J.
ELSEVIER SCIENCE INC.2008: 375-78
- **Intracoronary KAI-9803 as an adjunct to primary percutaneous coronary intervention for acute ST-segment elevation myocardial infarction** *CIRCULATION*
Roe, M. T., Hartmann, F., LINS, J., Batchelor, W., Ruzyllo, W., Kochman, J., Armstrong, B., Buszman, P., Buszman, P., Leisch, F., Baran, K., Roubin, G., Zenni, et al
2008; 117 (7): 886-896
- **Sustained pharmacological inhibition of delta PKC protects against hypertensive encephalopathy through prevention of blood-brain barrier breakdown in rats** *JOURNAL OF CLINICAL INVESTIGATION*
Qi, X., Inagaki, K., Sobel, R. A., Mochly-Rosen, D.
2008; 118 (1): 173-182
- **PKC Isozymes in chronic cardiac disease: Possible therapeutic targets?** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY*
Churchill, E., Budas, G., Vallentin, A., Koyanagi, T., Mochly-Rosen, D.
2008; 48: 569-599
- **Protection against mammary tumor metastasis by inhibition of PKC alpha**
Kim, J., Thorne, S. H., Sun, L., Mochly-Rosen, D.
AMER ASSOC CANCER RESEARCH.2007: 3434S-3434S
- **Competitive inhibitors and allosteric activators of protein kinase C isoenzymes: a personal account and progress report on transferring academic discoveries to the clinic** *Focus Topic at Life Sciences 2007 Conference*
Budas, G. R., Koyanagi, T., Churchill, E. N., Mochly-Rosen, D.
PORTLAND PRESS LTD.2007: 1021-1026
- **The roles of PKC delta and epsilon isoenzymes in the regulation of myocardial ischaemia/reperfusion injury** *Focus Topic at Life Sciences 2007 Conference*
Churchill, E. N., Mochly-Rosen, D.
PORTLAND PRESS LTD.2007: 1040-1042
- **Mitochondrial protein kinase C epsilon (PKC epsilon): emerging role in cardiac protection from ischaemic damage** *Focus Topic at Life Sciences 2007 Conference*
Budas, G. R., Mochly-Rosen, D.
PORTLAND PRESS LTD.2007: 1052-1054
- **delta PKC participates in the endoplasmic reticulum stress-induced response in cultured cardiac myocytes and ischemic heart** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Qi, X., Vallentin, A., Churchill, E., Mochly-Rosen, D.
2007; 43 (4): 420-428
- **Pharmacological inhibition of epsilon PKC suppresses chronic inflammation in murine cardiac transplantation model** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Koyanagi, T., Noguchi, K., Ootani, A., Inagaki, K., Robbins, R. C., Mochly-Rosen, D.
2007; 43 (4): 517-522
- **Improving pancreatic islet cell function and survival through PKC epsilon activation**
Kvezereli, M., Alice, V., Mochly-Rosen, D., Busque, S., Fontaine, M. J.
BLACKWELL PUBLISHING.2007: 516-17
- **Suppression of delta PKC activation after focal cerebral ischemia contributes to the protective effect of hypothermia** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Shimohata, T., Zhao, H., Sung, J. H., Sun, G., Mochly-Rosen, D., Steinberg, G. K.
2007; 27 (8): 1463-1475
- **Happy birthday protein kinase C: past, present and future of a superfamily.** *Pharmacological research*
Battaini, F., Mochly-Rosen, D.

2007; 55 (6): 461-466

- **Identification of mitochondria aldehyde dehydrogenase-selective activators as potent protective agents for injury from cardiac ischemia** *30th Annual Meeting of the Research-Society-on-Alcoholism*
Chen, C., Budas, G., Corti, F., Solow-Cordero, D., Ouyang, X., Mochly-Rosen, D.
WILEY-BLACKWELL.2007: 179A-179A
- **Cardioprotective mechanisms of PKC isozyme-selective activators and inhibitors in the treatment of ischemia-reperfusion injury** *PHARMACOLOGICAL RESEARCH*
Budas, G. R., Churchill, E. N., Mochly-Rosen, D.
2007; 55 (6): 523-536
- **Insight into intra- and inter-molecular interactions of PKC: Design of specific modulators of kinase function** *PHARMACOLOGICAL RESEARCH*
Kheifets, V., Mochly-Rosen, D.
2007; 55 (6): 467-476
- **delta PKC mediates microcerebrovascular dysfunction in acute ischemia and in chronic hypertensive stress in vivo** *BRAIN RESEARCH*
Bright, R., Steinberg, G. K., Mochly-Rosen, D.
2007; 1144: 146-155
- **Pharmacological inhibition of epsilon PKC suppressed chronic inflammation in murine cardiac transplantation model.**
Koyanagi, T., Noguchi, K., Ootani, A., Inagaki, K., Robbins, R. C., Mochly-Rosen, D.
BLACKWELL PUBLISHING.2007: 416
- **Rational design of a selective antagonist of epsilon protein kinase C derived from the selective allosteric agonist, pseudo-RACK peptide** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Liron, T., Chen, L. E., Khaner, H., Vallentin, A., Mochly-Rosen, D.
2007; 42 (4): 835-841
- **Impaired perfusion after myocardial infarction is due to reperfusion-induced delta PKC-mediated myocardial damage** *CARDIOVASCULAR RESEARCH*
Ikeno, F., Inagaki, K., Rezaee, M., Mochly-Rosen, D.
2007; 73 (4): 699-709
- **Peptides derived from the C2 domain of protein kinase C epsilon (epsilon PKC) modulate epsilon PKC activity and identify potential protein-protein interaction surfaces** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Brandman, R., Disatnik, M., Churchill, E., Mochly-Rosen, D.
2007; 282 (6): 4113-4123
- **Protection against hypertension-induced stroke and encephalopathy in hypertensive rats by sustained pharmacological inhibition of delta protein kinase C** *32nd International Stroke Conference*
Qi, X., Inagaki, K., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2007: 584-84
- **Regulation of endoplasmic reticulum-induced stress by protein kinase C delta in stroke** *32nd International Stroke Conference*
Qi, X., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2007: 546-47
- **RBCK1, a protein kinase C beta I (PKC beta I)-interacting protein, regulates PKC beta-dependent function** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Vallentin, A., Mochly-Rosen, D.
2007; 282 (3): 1650-1657
- **Peptide modulators of Src activity in G(1) regulate entry into S phase and proliferation of NIH 3T3 cells** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Mamidipudi, V., Miller, L. D., Mochly-Rosen, D., Cartwright, C. A.
2007; 352 (2): 423-430
- **Use of a novel method to find substrates of protein kinase C delta identifies M2 pyruvate kinase** *INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY*
Siwko, S., Mochly-Rosen, D.
2007; 39 (5): 978-987

- **Induced fit and wit: Celebrating the life of Daniel E. Koshland, Jr. (1920-2007) - Obituary** *IUBMB LIFE*
Newton, A. C., Mochly-Rosen, D.
2007; 59 (12): 741-743
- **Pharmacological inhibition of epsilon PKC prevents the progression of hypertension-induced heart failure**
Inagaki, K., Koyanagi, T., Wong, L., Petrauskene, O. V., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2006: 442
- **Protein kinase C delta (delta PKC)-annexin V interaction - A required step in delta PKC translocation and function** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Kheifets, V., Bright, R., Inagaki, K., Schechtman, D., Mochly-Rosen, D.
2006; 281 (32): 23218-23226
- **Ischemic preconditioning decreases delta PKC levels resulting in diminished translocation during reperfusion**
Churchill, E. N., Mochly-Rosen, D.
ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD.2006: 868
- **Nanoparticles: Novel cardioprotective devices that utilize a preconditioning-like mechanism**
Churchill, E. N., Bright, R., Bright, C., Leong, K., Szweda, L., Mochly-Rosen, D.
ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD.2006: 868-69
- **Epsilon protein kinase C as a potential therapeutic target for the ischemic heart** *CARDIOVASCULAR RESEARCH*
Inagaki, K., Churchill, E., Mochly-Rosen, D.
2006; 70 (2): 222-230
- **The role of protein kinase C in cerebral ischemic and reperfusion injury** *STROKE*
Bright, R., Mochly-Rosen, D.
2005; 36 (12): 2781-2790
- **PKC-epsilon-dependent survival signals in diabetic hearts** *76th Annual Scientific Session of the American-Heart-Association*
Malhotra, A., Begley, R., Kang, B. P., Rana, I., Liu, J., Yang, G. P., Mochly-Rosen, D., Meggs, L. G.
AMER PHYSIOLOGICAL SOC.2005: H1343-H1350
- **RSA 2004: combined basic research satellite symposium - session three: alcohol and mitochondrial metabolism: at the crossroads of life and death.** *Alcoholism, clinical and experimental research*
Szabo, G., Hoek, J. B., Darley-Usmar, V., Hajnoczky, G., Knudsen, T., Mochly-Rosen, D., Zakhari, S.
2005; 29 (9): 1749-1752
- **delta PKC-mediated activation of epsilon PKC in ethanol-induced cardiac protection from ischemia** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Inagaki, K., Mochly-Rosen, D.
2005; 39 (2): 203-211
- **Ethanol withdrawal-associated allodynia and hyperalgesia: Age-dependent regulation by protein kinase C epsilon and gamma isozymes** *JOURNAL OF PAIN*
Shumilla, J. A., Liron, T., Mochly-Rosen, D., Kendig, J. J., Sweitzer, S. M.
2005; 6 (8): 535-549
- **Reperfusion-induced translocation of delta PKC to cardiac mitochondria prevents pyruvate dehydrogenase reactivation** *CIRCULATION RESEARCH*
Churchill, E. N., Murriel, C. L., Chen, C. H., Mochly-Rosen, D., Szweda, L. I.
2005; 97 (1): 78-85
- **Protein kinase C delta cleavage initiates an aberrant signal transduction pathway after cardiac arrest and oxygen glucose deprivation** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Raval, A. P., Dave, K. R., Prado, R., Katz, L. M., Busto, R., Sick, T. J., Ginsberg, M. D., Mochly-Rosen, D., Perez-Pinzon, M. A.
2005; 25 (6): 730-741
- **Inhibition of heart transplant injury and graft coronary artery disease after prolonged organ ischemia by selective protein kinase C regulators** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Tanaka, M., Gunawan, F., Terry, R. D., Inagaki, K., Caffarelli, A. D., Hoyt, G., Tsao, P. S., Mochly-Rosen, D., Robbins, R. C.

2005; 129 (5): 1160-1167

- **Protein kinase C gamma mediates ethanol withdrawal hyper-responsiveness of NMDA receptor currents in spinal cord motor neurons** *BRITISH JOURNAL OF PHARMACOLOGY*
Li, H. F., Mochly-Rosen, D., Kendig, J. J.
2005; 144 (3): 301-307
- **Cardioprotection by epsilon-protein kinase C activation from ischemia - Continuous delivery and antiarrhythmic effect of an epsilon-protein kinase C-activating peptide** *CIRCULATION*
Inagaki, K., Begley, R., Ikeno, F., Mochly-Rosen, D.
2005; 111 (1): 44-50
- **Protein kinase C delta activation induces apoptosis in response to cardiac ischemia and reperfusion damage - A mechanism involving bad and the mitochondria** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Murriel, C. L., Churchill, E., Inagaki, K., Szweda, L. I., Mochly-Rosen, D.
2004; 279 (46): 47985-47991
- **Activated E-protein kinase C accelerates the transition from compensatory left ventricular hypertrophy to heart failure in hypertensive rats**
Inagaki, K., Begley, R., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2004: 598
- **Suppression of graft coronary artery disease by a brief treatment with a selective epsilon PKC activator and a delta PKC inhibitor in murine cardiac allografts** *CIRCULATION*
Tanaka, M., Terry, R. D., Mokhtari, G. K., Inagaki, K., Koyanagi, T., Kofidis, T., Mochly-Rosen, D., Robbins, R. C.
2004; 110 (11): II194-II199
- **Protein kinase C delta mediates cerebral reperfusion injury in vivo** *JOURNAL OF NEUROSCIENCE*
Bright, R., Raval, A. P., Dembner, J. M., Perez-Pinzon, M. A., Steinberg, G. K., Yenari, M. A., Mochly-Rosen, D.
2004; 24 (31): 6880-6888
- **RACK1 regulates Src-mediated Sam68 and p190RhoGAP signaling** *ONCOGENE*
Miller, L. D., Lee, K. C., Mochly-Rosen, D., Cartwright, C. A.
2004; 23 (33): 5682-5686
- **Cell-specific role for epsilon- and beta I-protein kinase C isozymes in protecting cortical neurons and astrocytes from ischemia-like injury** *NEUROPHARMACOLOGY*
Wang, J., Bright, R., Mochly-Rosen, D., Giffard, R. G.
2004; 47 (1): 136-145
- **Exaggerated nociceptive responses on morphine withdrawal: roles of protein kinase C epsilon, and gamma** *PAIN*
Sweitzer, S. M., Wong, S. M., Tjolsen, A., Allen, C. P., Mochly-Rosen, D., Kendig, J. J.
2004; 110 (1-2): 281-289
- **Biodistribution of intracellularly acting peptides conjugated reversibly to Tat** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Begley, R., Liron, T., Baryza, J., Mochly-Rosen, D.
2004; 318 (4): 949-954
- **Epsilon protein kinase C mediated ischemic tolerance requires activation of the extracellular regulated kinase pathway in the organotypic hippocampal slice** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Lange-Asschenfeldt, C., Raval, A. P., Dave, K. R., Mochly-Rosen, D., Sick, T. J., Perez-Pinzon, M. A.
2004; 24 (6): 636-645
- **Mechanism of interaction between Annexin V and delta PKC** *Annual Meeting of the American-Society-for-Biochemistry-and-Molecular-Biology/8th Congress of the International-Union-for-Biochemistry-and-Molecular-Biology*
Kheifets, V., Bright, R., Wong, M., Kihara, Y., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2004: C213-C213
- **The role of the V5 domain of epsilon PKC in enzyme function and localization**
Kheifets, Schechtman, D., Craske, M., Mochly-Rosen, D.
FEDERATION AMER SOC EXP BIOL.2004: C24

- **Protein kinase C epsilon and gamma: Involvement in formalin-induced nociception in neonatal rats** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Sweitzer, S. M., Wong, S. M., Peters, M. C., Mochly-Rosen, D., Yeomans, D. C., Kendig, J. J.
2004; 309 (2): 616-625
- **Protection against reperfusion injury-induced microvascular damage by inhibition of is an element of ' protein kinase C** *5th Annual Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*
Ikeno, F., Inagaki, K., Kaneda, H., Price, E. T., Chen, L., Yeung, A. C., Mochly-Rosen, D., Rezaee, M.
LIPPINCOTT WILLIAMS & WILKINS.2004: E38-E38
- **State-specific monoclonal antibodies identify an intermediate state in epsilon protein kinase C activation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Souroujon, M. C., Yao, L. N., Chen, H. B., Endemann, G., Khaner, H., Geeraert, V., Schechtman, D., Gordon, A. S., Diamond, I., Mochly-Rosen, D.
2004; 279 (17): 17617-17624
- **A critical intramolecular interaction for protein kinase C epsilon translocation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Schechtman, D., Craske, M. L., Kheifets, V., Meyer, T., Schechtman, J., Mochly-Rosen, D.
2004; 279 (16): 15831-15840
- **Epsilon protein kinase C (PKC) activation by delta PKC in ethanol-induced cardiac protection from ischemia**
Inagaki, K., Mochly-Rosen, D.
ELSEVIER SCIENCE INC.2004: 294A
- **Combined treatment with epsilon protein kinase C activator and delta protein kinase C inhibitor ameliorates ischemia reperfusion injury with prolonged ischemia in rat cardiac allografts**
Tanaka, M., Terry, T. D., Mokhtari, G. K., Hoyt, E. G., Koyanagi, T., Inagaki, K., Kofidis, R., Mochly-Rosen, D., Robbins, R. C.
ELSEVIER SCIENCE INC.2004: 176A
- **Preservation of base-line hemodynamic function and loss of inducible cardioprotection in adult mice lacking protein kinase C-epsilon** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Gray, M. O., Zhou, H. Z., Schafhalter-Zoppoth, I., Zhu, P. L., Mochly-Rosen, D., Messing, R. O.
2004; 279 (5): 3596-3604
- **Opposing roles of delta and epsilon PKC in cardiac ischemia and reperfusion: targeting the apoptotic machinery** *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*
Murriel, C. L., Mochly-Rosen, D.
2003; 420 (2): 246-254
- **Inhibition of delta-protein kinase C protects against reperfusion injury of the ischemic heart in vivo** *CIRCULATION*
Inagaki, K., Chen, L., Ikeno, F., Lee, F. H., Imahashi, K., Bouley, D. M., Rezaee, M., Yock, P. G., Murphy, E., Mochly-Rosen, D.
2003; 108 (19): 2304-2307
- **Protein kinase C-epsilon dependent survival signals in the diabetic heart** *76th Annual Scientific Session of the American-Heart-Association*
Malhotra, A., Begley, R., Kang, B. P., Liu, J., Thaisz, J., Yang, G. P., Frisoli, T., Mochly-Rosen, D., Meggs, L. G.
LIPPINCOTT WILLIAMS & WILKINS.2003: 205-
- **Additive protection of the ischemic heart ex vivo by combined treatment with delta-protein kinase C inhibitor and epsilon-protein kinase C activator** *CIRCULATION*
Inagaki, K., Hahn, H. S., Dorn, G. W., Mochly-Rosen, D.
2003; 108 (7): 869-875
- **Opposing effects of delta- and zeta-protein kinase C isozymes on cardiac fibroblast proliferation: use of isozyme-selective inhibitors** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Braun, M. U., Mochly-Rosen, D.
2003; 35 (8): 895-903
- **PKC isozyme selective regulation of cloned human cardiac delayed slow rectifier K current** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Xiao, G. Q., Mochly-Rosen, D., Boutjdir, M.
2003; 306 (4): 1019-1025
- **Prevention of NMDA-induced death of cortical neurons by inhibition of protein kinase C zeta** *JOURNAL OF NEUROCHEMISTRY*

- Koponen, S., Kurkinen, K., Akerman, K. E., Mochly-Rosen, D., Chan, P. H., Koistinaho, J.
2003; 86 (2): 442-450
- **Inhibition of delta protein kinase C protects vascular injury and microcirculation from reperfusion injury in myocardial infarction** *52nd Annual Scientific Session of the American-College-of-Cardiology*
Ikeno, F., Inagaki, K., Chen, L., Price, E. T., Fenn, R. C., Yeung, A. C., Mochly-Rosen, D., Rezaee, M.
ELSEVIER SCIENCE INC.2003: 373A-373A
 - **Cytotoxicity of pEGFP vector is due to residues encoded by multiple cloning site** *ANALYTICAL BIOCHEMISTRY*
Endemann, G., Schechtman, D., Mochly-Rosen, D.
2003; 313 (2): 345-347
 - **epsilon PKC is required for the induction of tolerance by ischemic and NMDA-mediated preconditioning in the organotypic hippocampal slice** *JOURNAL OF NEUROSCIENCE*
Raval, A. P., Dave, K. R., Mochly-Rosen, D., Sick, T. J., Perez-Pinzon, M. A.
2003; 23 (2): 384-391
 - **Glutathione S-transferase pull-down assay.** *Methods in molecular biology (Clifton, N.J.)*
Schechtman, D., Mochly-Rosen, D., Ron, D.
2003; 233: 345-350
 - **Methods for detecting binding proteins: an introduction.** *Methods in molecular biology (Clifton, N.J.)*
Endemann, G., Mochly-Rosen, D.
2003; 233: 307-325
 - **Overlay method for detecting protein-protein interactions.** *Methods in molecular biology (Clifton, N.J.)*
Schechtman, D., Murriel, C., Bright, R., Mochly-Rosen, D.
2003; 233: 351-357
 - **The beta gamma subunit of Heterotrimeric G proteins interacts with RACK1 and two other WD repeat proteins** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Dell, E. J., Connor, J., Chen, S. H., Stebbins, E. G., Skiba, N. P., Mochly-Rosen, D., Hamm, H. E.
2002; 277 (51): 49888-49895
 - **Tissue angiotensin II during progression or ventricular hypertrophy to heart failure in hypertensive rats; Differential effects on PKC epsilon and PKC beta** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Inagaki, K., Iwanaga, Y., Sarai, N., Onozawa, Y., Takenaka, H., Mochly-Rosen, D., Kihara, Y.
2002; 34 (10): 1377-1385
 - **Cardioprotection mediated by sphingosine-1-phosphate and ganglioside GM-1 in wild-type and PKC epsilon knockout mouse hearts** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Jin, Z. Q., Zhou, H. Z., Zhu, P. L., Honbo, N., Mochly-Rosen, D., Messing, R. O., Goetzl, E. J., Karliner, J. S., Gray, M. O.
2002; 282 (6): H1970-H1977
 - **Sequential activation of individual PKC isozymes in integrin-mediated muscle cell spreading: a role for MARCKS in an integrin signaling pathway** *JOURNAL OF CELL SCIENCE*
Disatnik, M. H., Boutet, S. C., Lee, C. H., Mochly-Rosen, D., Rando, T. A.
2002; 115 (10): 2151-2163
 - **Isozyme-specific abnormalities of PKC in thyroid cancer: Evidence for post-transcriptional changes in PKC epsilon** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Knauf, J. A., Ward, L. S., Nikiforov, Y. E., Nikiforova, M., Puxeddu, E., Medvedovic, M., Liron, T., Mochly-Rosen, D., Fagin, J. A.
2002; 87 (5): 2150-2159
 - **Molecular dynamics characterization of the C2 domain of protein kinase C beta** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Banci, L., Cavallaro, G., Kheifets, V., Mochly-Rosen, D.
2002; 277 (15): 12988-12997
 - **Dopamine-induced exocytosis of Na,K-ATPase is dependent on activation of protein kinase C-epsilon and -delta** *MOLECULAR BIOLOGY OF THE CELL*
Ridge, K. M., Dada, L., Lecuona, E., Bertorello, A. M., Katz, A. I., Mochly-Rosen, D., Sznajder, J. I.
2002; 13 (4): 1381-1389

- **A novel inhibitor of protein kinase-C as a therapeutic for ischemic reperfusion injury in acute coronary syndromes**
Lee, F., Inagaki, K., Chen, L., Bailey, L., Ikeno, F., Lyons, J., Bouley, D., Yock, P., Carter, A., Yeung, A., Mochly-Rosen, D.
ELSEVIER SCIENCE INC.2002: 445A–445A
- **Cardioprotection caused by ischemic preconditioning or by an alpha 1-adrenergic receptor agonist is blocked in hearts from Epsilon Protein Kinase C knockout mice**
Zhou, H. Z., Karliner, J. S., Zhu, P. L., Mochly-Rosen, D., Messing, R. O., Gray, M. O.
ELSEVIER SCIENCE INC.2002: 299A
- **Isozyme-specific inhibitors and activators of protein kinase C G PROTEIN PATHWAYS: PT C, EFFECTOR MECHANISMS**
Schechtman, D., Mochly-Rosen, D.
2002; 345: 470-489
- **psi epsilon RACK, a selective PKC epsilon activating peptide, causes a positive inotropic effect in feline ventricular myocytes**
Harris, D. M., Piacentino, V., Chaudhary, K., Mochly-Rosen, D., Margulies, K. B., Houser, S. R.
CELL PRESS.2002: 70A–70A
- **YeRACK, a selective PKCe activating peptide, causes a positive inotropic effect in feline ventricular myocytes**
Harris, D. M., Piacentino, V., Chaudhary, K., Mochly-Rosen, D., Margulies, K. B., Houser, S. R.
CELL PRESS.2002: 70A–71A
- **Intracellular transport mechanisms of signal transducers ANNUAL REVIEW OF PHYSIOLOGY**
Dorn, G. W., Mochly-Rosen, D.
2002; 64: 407-429
- **Molecular transporters for peptides: delivery of a cardioprotective epsilon PKC agonist peptide into cells and intact ischemic heart using a transport system, R-7 CHEMISTRY & BIOLOGY**
Chen, L., Wright, L. R., Chen, C. H., Oliver, S. F., Wender, P. A., Mochly-Rosen, D.
2001; 8 (12): 1123-1129
- **Evidence for functional role of epsilon PKC isozyme in the regulation of cardiac Na⁺ channels AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY**
Xiao, G. Q., Qu, Y. X., Sun, Z. Q., Mochly-Rosen, D., Boutjdir, M.
2001; 281 (5): C1477-C1486
- **Adaptor proteins in protein kinase C-mediated signal transduction ONCOGENE**
Schechtman, D., Mochly-Rosen, D.
2001; 20 (44): 6339-6347
- **Opposing cardioprotective actions and parallel hypertrophic effects of delta PKC and epsilon PKC PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA**
Chen, L., Hahn, H., Wu, G. Y., Chen, C. H., Liron, T., Schechtman, D., Cavallaro, G., Banci, L., Guo, Y. R., Bolli, R., Dorn, G. W., Mochly-Rosen, D.
2001; 98 (20): 11114-11119
- **Binding specificity for RACK1 resides in the V5 region of beta II protein kinase C JOURNAL OF BIOLOGICAL CHEMISTRY**
Stebbins, E. G., Mochly-Rosen, D.
2001; 276 (32): 29644-29650
- **Localization, anchoring, and functions of protein kinase C isozymes in the heart JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY**
MACKAY, K., Mochly-Rosen, D.
2001; 33 (7): 1301-1307
- **Arachidonic acid protects neonatal rat cardiac myocytes from ischaemic injury through epsilon protein kinase C CARDIOVASCULAR RESEARCH**
MACKAY, K., Mochly-Rosen, D.
2001; 50 (1): 65-74
- **Opposing effects of delta and epsilon PKC in ethanol-induced cardioprotection JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY**
Chen, C. H., Mochly-Rosen, D.
2001; 33 (3): 581-585

- **Spontaneous occurrence of an inhibitor of protein kinase C localization in a thyroid cancer cell line: Role in thyroid tumorigenesis** *41st International Symposium on Regulation of Enzyme Activity and Synthesis in Normal and Neoplastic Tissues*
Mochly-Rosen, D., Fagin, J. A., Knauf, J. A., Nikiforov, Y., Liron, T., Schechtman, D.
PERGAMON-ELSEVIER SCIENCE LTD.2001: 87-97
- **Is protein kinase C-epsilon persistently translocated to the myofibrils in failing human ventricular myocytes?**
Harris, D. M., McGowan, B., Kubo, H., Chaudhary, K., Mochly-Rosen, D., Margulies, K. B., Houser, S. R.
CELL PRESS.2001: 68A-68A
- **Evidence for functional role of epsilon PKC isozyme in the regulation of cardiac Ca²⁺ channels** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Hu, K. L., Mochly-Rosen, D., Boutjdir, M.
2000; 279 (6): H2658-H2664
- **Protein kinase C isozymes and the regulation of diverse cell responses** *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*
Dempsey, E. C., Newton, A. C., Mochly-Rosen, D., Fields, A. P., Reyland, M. E., Insel, P. A., Messing, R. O.
2000; 279 (3): L429-L438
- **Involvement of a p38 mitogen-activated protein kinase phosphatase in protecting neonatal rat cardiac myocytes from ischemia** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
MACKAY, K., Mochly-Rosen, D.
2000; 32 (8): 1585-1588
- **Chronic hypersensitivity for inflammatory nociceptor sensitization mediated by the epsilon isozyme of protein kinase C** *JOURNAL OF NEUROSCIENCE*
Aley, K. O., Messing, R. O., Mochly-Rosen, D., Levine, J. D.
2000; 20 (12): 4680-4685
- **Cardiotrophic effects of protein kinase C epsilon - Analysis by in vivo modulation of PKC epsilon translocation** *CIRCULATION RESEARCH*
Mochly-Rosen, D., Wu, G. Y., Hahn, H., Osinska, H., Liron, T., Lorenz, J. N., Yatani, A., Robbins, J., Dorn, G. W.
2000; 86 (11): 1173-1179
- **Pharmacological regulation of network kinetics by protein kinase C localization** *SEMINARS IN IMMUNOLOGY*
Mochly-Rosen, D., Kauvar, L. M.
2000; 12 (1): 55-61
- **Evidence for functional regulation of cardiac Ca channels by epsilon PKC using specific peptides activator and inhibitor of epsilon PKC**
Hu, K., El-Sherif, N., Mochly-Rosen, D., Boutjdir, M.
LIPPINCOTT WILLIAMS & WILKINS.1999: 190-91
- **Sustained in vivo cardiac protection by a rationally designed peptide that causes epsilon protein kinase C translocation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dorn, G. W., Souroujon, M. C., Liron, T., Chen, C. H., Gray, M. O., Zhou, H. Z., Csukai, M., Wu, G. Y., Lorenz, J. N., Mochly-Rosen, D.
1999; 96 (22): 12798-12803
- **Cardioprotection from ischemia by a brief exposure to physiological levels of ethanol: Role of epsilon protein kinase C** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chen, C. H., Gray, M. O., Mochly-Rosen, D.
1999; 96 (22): 12784-12789
- **RACK1, a protein kinase C anchoring protein, coordinates the binding of activated protein kinase C and select pleckstrin homology domains in vitro** *BIOCHEMISTRY*
Rodriguez, M. M., Ron, D., Touhara, K., Chen, C. H., Mochly-Rosen, D.
1999; 38 (42): 13787-13794
- **Protein kinase c-epsilon is responsible for the protection of preconditioning in rabbit cardiomyocytes** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Liu, G. S., Cohen, M. V., Mochly-Rosen, D., Downey, J. M.
1999; 31 (10): 1937-1948

- **Involvement of protein kinase C epsilon (PKC epsilon) in thyroid cell death - A truncated chimeric PKC epsilon cloned from a thyroid cancer cell line protects thyroid cells from apoptosis** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Knauf, J. A., Elisei, R., Mochly-Rosen, D., Liron, T., Chen, X. N., Gonsky, R., Korenberg, J. R., Fagin, J. A.
1999; 274 (33): 23414-23425
- **Characterization of the binding and phosphorylation of cardiac calsequestrin by epsilon protein kinase C** *FEBS LETTERS*
Rodriguez, M. M., Chen, C. H., Smith, B. L., Mochly-Rosen, D.
1999; 454 (3): 240-246
- **Pharmacologic modulation of protein kinase C isozymes: The role of races and subcellular localisation** *PHARMACOLOGICAL RESEARCH*
Csukai, M., Mochly-Rosen, D.
1999; 39 (4): 253-259
- **An inhibitor of p38 mitogen-activated protein kinase protects neonatal cardiac myocytes from ischemia** *JOURNAL OF BIOLOGICAL CHEMISTRY*
MACKAY, K., Mochly-Rosen, D.
1999; 274 (10): 6272-6279
- **Evidence of zeta protein kinase C involvement in polymorphonuclear neutrophil integrin-dependent adhesion and chemotaxis** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Laudanna, C., Mochly-Rosen, D., Liron, T., Constantin, G., BUTCHER, E. C.
1998; 273 (46): 30306-30315
- **Peptide modulators of protein-protein interactions in intracellular signaling** *NATURE BIOTECHNOLOGY*
Souroujon, M. C., Mochly-Rosen, D.
1998; 16 (10): 919-924
- **Activation of epsilon protein kinase C correlates with a cardioprotective effect of regular ethanol consumption** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Miyamae, M., Rodriguez, M. M., Camacho, S. A., Diamond, I., Mochly-Rosen, D., Figueredo, V. M.
1998; 95 (14): 8262-8267
- **Modulating protein kinase C signal transduction.** *Advances in pharmacology (San Diego, Calif.)*
Mochly-Rosen, D., Kauvar, L. M.
1998; 44: 91-145
- **Anchoring proteins for protein kinase C: a means for isozyme selectivity** *FASEB JOURNAL*
Mochly-Rosen, D., Gordon, A. S.
1998; 12 (1): 35-42
- **Molecular genetic approaches. II. Expression-interaction cloning.** *Methods in molecular biology (Clifton, N.J.)*
Csukai, M., Mochly-Rosen, D.
1998; 88: 133-139
- **A selective epsilon-protein kinase C antagonist inhibits protection of cardiac myocytes from hypoxia-induced cell death** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Gray, M. O., Karliner, J. S., Mochly-Rosen, D.
1997; 272 (49): 30945-30951
- **The coatomer protein beta'-COP, a selective binding protein (RACK) for protein kinase C epsilon** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Csukai, M., Chen, C. H., DEMATTEIS, M. A., MOCHLYROSEN, D.
1997; 272 (46): 29200-29206
- **An inhibitory fragment derived from protein kinase C epsilon prevents enhancement of nerve growth factor responses by ethanol and phorbol esters** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Hundle, B., McMahon, T., Dadgar, J., Chen, C. H., MOCHLYROSEN, D., Messing, R. O.
1997; 272 (23): 15028-15035
- **C2 region-derived peptides of p-protein kinase C regulate cardiac Ca²⁺ channels** *CIRCULATION RESEARCH*
Zhang, Z. H., Johnson, J. A., Chen, L., ELSHERIF, N., MOCHLYROSEN, D., Boutjdir, M.
1997; 80 (5): 720-729

- **Translocation inhibitors define specificity of protein kinase C isoenzymes in pancreatic beta-cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*
YEDOVITZKY, M., MOCHLYROSEN, D., Johnson, J. A., Gray, M. O., Ron, D., ABRAMOVITCH, E., Cerasi, E., Nesher, R.
1997; 272 (3): 1417-1420
- **An improved permeabilization protocol for the introduction of peptides into cardiac myocytes - Application to protein kinase C research** *CIRCULATION RESEARCH*
Johnson, J. A., Gray, M. O., Karliner, J. S., Chen, C. H., MOCHLYROSEN, D.
1996; 79 (6): 1086-1099
- **A protein kinase C translocation inhibitor as an isozyme-selective antagonist of cardiac function** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Johnson, J. A., Gray, M. O., Chen, C. H., MOCHLYROSEN, D.
1996; 271 (40): 24962-24966
- **Differential activation of protein kinase C isozymes by phorbol ester and collagen in human skin microvascular endothelial cells** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Zhou, L. Y., Disatnik, M. H., Herron, G. S., Rosen, D. M., Karasek, M. A.
1996; 107 (2): 248-252
- **The HIV Nef protein associates with protein kinase C theta** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Smith, B. L., KRUSHELNYCKY, B. W., MOCHLYROSEN, D., Berg, P.
1996; 271 (28): 16753-16757
- **Signal transduction by the polymeric immunoglobulin receptor suggests a role in regulation of receptor transcytosis** *JOURNAL OF CELL BIOLOGY*
Cardone, M. H., Smith, B. L., Mennitt, P. A., MOCHLYROSEN, D., Silver, R. B., MOSTOV, K. E.
1996; 133 (5): 997-1005
- **STIMULUS-DEPENDENT SUBCELLULAR-LOCALIZATION OF ACTIVATED PROTEIN-KINASE-C - A STUDY WITH ACIDIC FIBROBLAST GROWTH-FACTOR AND TRANSFORMING GROWTH-FACTOR-BETA-1 IN CARDIAC MYOCYTES** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Disatnik, M. H., Jones, S. N., MOCHLYROSEN, D.
1995; 27 (11): 2473-2481
- **C2 REGION-DERIVED PEPTIDES INHIBIT TRANSLOCATION AND FUNCTION OF BETA-PROTEIN KINASE-C IN-VIVO** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ron, D., Luo, J. H., MOCHLYROSEN, D.
1995; 270 (41): 24180-24187
- **THE PRODUCT OF THE ATAXIA-TELANGIECTASIA GROUP-D COMPLEMENTING GENE, ATDC INTERACTS WITH A PROTEIN-KINASE-C SUBSTRATE AND INHIBITOR** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Brzoska, P. M., Chen, H. Y., Zhu, Y. F., Levin, N. A., Disatnik, M. H., MOCHLYROSEN, D., Murnane, J. P., Christman, M. F.
1995; 92 (17): 7824-7828
- **PROLONGED PHORBOL ESTER TREATMENT DOWN-REGULATES PROTEIN-KINASE-C ISOZYMES AND INCREASES CONTRACTION RATE IN NEONATAL CARDIAC MYOCYTES** *LIFE SCIENCES*
Johnson, J. A., Adak, S., MOCHLYROSEN, D.
1995; 57 (11): 1027-1038
- **INTERACTION OF PROTEIN-KINASE-C WITH RACK1, A RECEPTOR FOR ACTIVATED C-KINASE - A ROLE IN BETA-PROTEIN KINASE-C MEDIATED SIGNAL-TRANSDUCTION** *654th Meeting of the Biochemical-Society*
MOCHLYROSEN, D., Smith, B. L., Chen, C. H., Disatnik, M. H., Ron, D.
PORTLAND PRESS LTD.1995: 596-600
- **LOCALIZATION OF PROTEIN-KINASES BY ANCHORING PROTEINS - A THEME IN SIGNAL-TRANSDUCTION** *SCIENCE*
MOCHLYROSEN, D.
1995; 268 (5208): 247-251
- **INHIBITION OF THE SPONTANEOUS RATE OF CONTRACTION OF NEONATAL CARDIAC MYOCYTES BY PROTEIN-KINASE-C ISOZYMES - A PUTATIVE ROLE FOR THE EPSILON-ISOZYME** *CIRCULATION RESEARCH*
Johnson, J. A., MOCHLYROSEN, D.
1995; 76 (4): 654-663

- **AN AUTOREGULATORY REGION IN PROTEIN-KINASE-C - THE PSEUDOANCHORING SITE** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ron, D., MOCHLYROSEN, D.
1995; 92 (2): 492-496
- **AGONISTS AND ANTAGONISTS OF PROTEIN-KINASE-C FUNCTION, DERIVED FROM ITS BINDING-PROTEINS** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ron, D., MOCHLYROSEN, D.
1994; 269 (34): 21395-21398
- **DISTINCT RESPONSES OF PROTEIN-KINASE-C ISOZYMES TO C-ERBB-2 ACTIVATION IN SKBR-3 HUMAN BREAST-CARCINOMA CELLS** *CELL GROWTH & DIFFERENTIATION*
Disatnik, M. H., Winnier, A. R., MOCHLYROSEN, M., ARGEAGA, C. L.
1994; 5 (8): 873-880
- **DEVELOPMENTAL EXPRESSION OF PROTEIN-KINASE-C SUBSPECIES IN RAT BRAIN-PITUITARY AXIS** *MOLECULAR AND CELLULAR ENDOCRINOLOGY*
GARCIANAVARRO, S., Marantz, Y., Eyal, R., Kalina, M., Disatnik, M. H., MOCHLYROSEN, D., BENMENAHEM, D., Reiss, N., Naor, Z.
1994; 103 (1-2): 133-138
- **PHORBOL-MYRISTATE ACETATE-MEDIATED STIMULATION OF TRANSCYTOSIS AND APICAL RECYCLING IN MDCK CELLS** *JOURNAL OF CELL BIOLOGY*
Cardone, M. H., Smith, B. L., Song, W. X., MOCHLYROSEN, D., MOSTOV, K. E.
1994; 124 (5): 717-727
- **CLONING OF AN INTRACELLULAR RECEPTOR FOR PROTEIN-KINASE-C - A HOMOLOG OF THE BETA-SUBUNIT OF G-PROTEINS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ron, D., Chen, C. H., Caldwell, J., Jamieson, L., Orr, E., MOCHLYROSEN, D.
1994; 91 (3): 839-843
- **LOCALIZATION OF PROTEIN-KINASE-C ISOZYMES IN CARDIAC MYOCYTES** *EXPERIMENTAL CELL RESEARCH*
Disatnik, M. H., Buraggi, G., MOCHLYROSEN, D.
1994; 210 (2): 287-297
- **PHOSPHOLIPASE C-GAMMA-1 BINDING TO INTRACELLULAR RECEPTORS FOR ACTIVATED PROTEIN-KINASE-C** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Disatnik, M. H., HERNANDEZSOTOMAYOR, S. M., Jones, G., CARPENTER, G., MOCHLYROSEN, D.
1994; 91 (2): 559-563
- **CLONING OF AN INTRACELLULAR RECEPTOR FOR PROTEIN-KINASE-C - A HOMOLOG OF THE BETA-SUBUNIT OF G-PROTEINS**
Ron, D., Chen, C. H., Caldwell, J., Jamieson, L., Orr, E., MOCHLYROSEN, D.
WILEY-BLACKWELL.1994: 67-67
- **INHIBITION OF PROTEIN-KINASE-C FUNCTION BY INJECTION OF INTRACELLULAR RECEPTORS FOR THE ENZYME** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Smith, B. L., MOCHLYROSEN, D.
1992; 188 (3): 1235-1240
- **NICOTINIC ACETYLCHOLINE-RECEPTOR DESENSITIZATION IS REGULATED BY ACTIVATION-INDUCED EXTRACELLULAR ADENOSINE ACCUMULATION** *JOURNAL OF NEUROSCIENCE*
Pitchford, S., Day, J. W., Gordon, A., MOCHLYROSEN, D.
1992; 12 (11): 4540-4544
- **P65 FRAGMENTS, HOMOLOGOUS TO THE C2 REGION OF PROTEIN-KINASE-C, BIND TO THE INTRACELLULAR RECEPTORS FOR PROTEIN-KINASE-C** *BIOCHEMISTRY*
MOCHLYROSEN, D., Miller, K. G., Scheller, R. H., Khaner, H., Lopez, J., Smith, B. L.
1992; 31 (35): 8120-8124
- **INTRACELLULAR RECEPTORS FOR ACTIVATED PROTEIN-KINASE-C - IDENTIFICATION OF A BINDING-SITE FOR THE ENZYME** *JOURNAL OF BIOLOGICAL CHEMISTRY*
MOCHLYROSEN, D., Khaner, H., Lopez, J., Smith, B. L.

1991; 266 (23): 14866-14868

- **THE ROLE OF ADENOSINE AND ADENOSINE TRANSPORT IN ETHANOL-INDUCED CELLULAR TOLERANCE AND DEPENDENCE - POSSIBLE BIOLOGIC AND GENETIC-MARKERS OF ALCOHOLISM** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Diamond, I., Nagy, L., MOCHLYROSEN, D., Gordon, A.
1991; 625: 473-487
- **IDENTIFICATION OF INTRACELLULAR RECEPTOR PROTEINS FOR ACTIVATED PROTEIN-KINASE-C** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
MOCHLYROSEN, D., Khaner, H., Lopez, J.
1991; 88 (9): 3997-4000
- **THE ROLE OF ADENOSINE AND ADENOSINE TRANSPORT IN ETHANOL-INDUCED CELLULAR TOLERANCE AND DEPENDENCE - POSSIBLE BIOLOGIC AND GENETIC-MARKERS OF ALCOHOLISM**
DIAMOND, NAGY, L., MOCHLYROSEN, D., GORDON, A., RUBIN, E., MILLER, K. W., ROTH, S. H.
NEW YORK ACAD SCIENCES.1991: 473-487
- **GTP-BINDING PROTEINS ARE RESTRICTED TO SIGNAL TRANSDUCTION SITES** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
MOCHLYROSEN, D., Gordon, A. S.
1990; 173 (1): 388-395
- **A PROTEIN-KINASE-C ISOZYME IS TRANSLOCATED TO CYTOSKELETAL ELEMENTS ON ACTIVATION** *CELL REGULATION*
MOCHLYROSEN, D., Henrich, C. J., Cheever, L., Khaner, H., Simpson, P. C.
1990; 1 (9): 693-706
- **CHRONIC ETHANOL-INDUCED HETEROLOGOUS DESENSITIZATION IS MEDIATED BY CHANGES IN ADENOSINE TRANSPORT** *BIOCHEMICAL SOCIETY SYMPOSIUM*
Gordon, A. S., Nagy, L., MOCHLYROSEN, D., Diamond, I.
1990: 117-136
- **CHRONIC ETHANOL CAUSES HETEROLOGOUS DESENSITIZATION OF RECEPTORS BY REDUCING ALPHA-S MESSENGER-RNA** *NATURE*
MOCHLYROSEN, D., Chang, F. H., Cheever, L., Kim, M., Diamond, I., Gordon, A. S.
1988; 333 (6176): 848-850
- **A GENERAL PROCEDURE FOR SCREENING INHIBITORY ANTIBODIES - APPLICATION FOR IDENTIFYING ANTI-PROTEIN KINASE-C ANTIBODIES** *ANALYTICAL BIOCHEMISTRY*
MOCHLYROSEN, D., Koshland, D. E.
1988; 170 (1): 31-37
- **DISTINCT CELLULAR AND REGIONAL LOCALIZATION OF IMMUNOREACTIVE PROTEIN-KINASE-C IN RAT-BRAIN** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
MOCHLYROSEN, D., Basbaum, A. I., Koshland, D. E.
1987; 84 (13): 4660-4664
- **COMPARISON OF S100B PROTEIN WITH CALMODULIN - INTERACTIONS WITH MELITTIN AND MICROTUBULE-ASSOCIATED TAU-PROTEINS AND INHIBITION OF PHOSPHORYLATION OF TAU-PROTEINS BY PROTEIN-KINASE-C** *BIOCHEMISTRY*
Baudier, J., MOCHLYROSEN, D., Newton, A., Lee, S. H., Koshland, D. E., Cole, R. D.
1987; 26 (10): 2886-2893
- **EXPOSURE OF HELA DNA POLYMERASE-ALPHA TO PROTEIN-KINASE-C AFFECTS ITS CATALYTIC PROPERTIES** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Krauss, S. W., MOCHLYROSEN, D., Koshland, D. E., Linn, S.
1987; 262 (8): 3432-3435
- **DOMAIN-STRUCTURE AND PHOSPHORYLATION OF PROTEIN-KINASE-C** *JOURNAL OF BIOLOGICAL CHEMISTRY*
MOCHLYROSEN, D., Koshland, D. E.
1987; 262 (5): 2291-2297
- **PROTEIN-KINASE-C DIRECTLY PHOSPHORYLATES THE INSULIN-RECEPTOR INVITRO AND REDUCES ITS PROTEIN-TYROSINE KINASE-ACTIVITY** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
BOLLAG, G. E., Roth, R. A., Beaudoin, J., MOCHLYROSEN, D., Koshland, D. E.

1986; 83 (16): 5822-5824

- **ANTIGENIC SPECIFICITY OF ACETYLCHOLINE-RECEPTOR IN DEVELOPING MUSCLE - STUDIES WITH MONOCLONAL-ANTIBODIES** *JOURNAL OF NEUROIMMUNOLOGY*
Souroujon, M. C., Pizzighella, S., MOCHLYROSEN, D., Fuchs, S.
1985; 8 (2-3): 159-166
- **AN ANTI-ACETYLCHOLINE RECEPTOR MONOCLONAL-ANTIBODY CROSS-REACTS WITH PHOSVITIN** *FEBS LETTERS*
Pizzighella, S., Gordon, A. S., Souroujon, M. C., MOCHLYROSEN, D., Sharp, A., Fuchs, S.
1983; 159 (1-2): 246-250
- **INTERACTION OF MONOCLONAL-ANTIBODIES TO TORPEDO ACETYLCHOLINE-RECEPTOR WITH THE RECEPTOR OF SKELETAL-MUSCLE** *MUSCLE & NERVE*
Souroujon, M. C., MOCHLYROSEN, D., Gordon, A. S., Fuchs, S.
1983; 6 (4): 303-311
- **MONOCLONAL-ANTIBODIES MODIFY ACETYLCHOLINE-INDUCED IONIC CHANNEL PROPERTIES IN CULTURED CHICK MYOBALLS** *JOURNAL OF MEMBRANE BIOLOGY*
Goldberg, G., MOCHLYROSEN, D., Fuchs, S., Lass, Y.
1983; 76 (2): 123-128
- **ACETYLCHOLINE-RECEPTOR - MOLECULAR DISSECTION AND MONOCLONAL-ANTIBODIES IN THE STUDY OF EXPERIMENTAL MYASTHENIA** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Fuchs, S., Bartfeld, D., MOCHLYROSEN, D., Souroujon, M., FEINGOLD, C.
1981; 377 (DEC): 110-124
- **Molecular aspects of experimental autoimmune myasthenia gravis.** *Progress in clinical and biological research*
Fuchs, S., Bartfeld, D., Mochly-Rosen, D., Schmidt-Hopf, I., Tarrab-Hazdai, R.
1981; 63: 405-417
- **MONOCLONAL ANTI-ACETYLCHOLINE-RECEPTOR ANTIBODIES DIRECTED AGAINST THE CHOLINERGIC BINDING-SITE** *BIOCHEMISTRY*
MOCHLYROSEN, D., Fuchs, S.
1981; 20 (20): 5920-5924
- **IMMUNE REGULATION OF EXPERIMENTAL MYASTHENIA** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*
Fuchs, S., Bartfeld, D., ESHHAR, Z., FEINGOLD, C., MOCHLYROSEN, D., Novick, D., Schwartz, M., TARRABHAZDAI, R.
1980; 43 (7): 634-643
- **MODIFICATION OF ACETYLCHOLINE-RECEPTOR - CHEMICAL AND IMMUNOLOGICAL CHARACTERIZATION OF POLYALANYL ACETYLCHOLINE-RECEPTOR** *FEBS LETTERS*
TARRABHAZDAI, R., SCHMIDTSOLE, Y., MOCHLYROSEN, D., Fuchs, S.
1980; 118 (1): 35-38